Exhibit E Part 3

- a computer having a database containing the locations of all packages in the holding/means able to receive orders for packages and able to direct the means for picking packages.
- 25. A system as described in claim 24 wherein the structure includes a plurality of rod supports from which the rods extend, said structure with back rod supports form an X, Y coordinate system with each rod and medicine packages therein having a unique X and Y coordinate, /said picking means disposed adjacent said structure such that a given medicine package on an associated rod can be picked by/the picking means to fill a patient's prescription; or a given medicine package in the supplying means can be picked by the picking means to restock the associated rod.
- 26. A system as described in claim 25 including a conveyor in communication with the picking means; and patient prescription boxes which are moved by the conveyor to the picking means such that the picking means provides the medicine packages it has picked/to fill a given prescription to an associated box.
- A system as described in claim 26 wherein the picking means includes at least one gripper that picks the medicine packages; and a tooling support structure having at least one column to support the tooling and at least one row to

support the column such that the tooling moves along the column as the column moves along the row to pick a given medicine package hanging from a corresponding support rod, or restock a given medicine package on a corresponding support rod, and means for moving the column with respect to the row, said moving means controlled by the computer.

28. A system as described in claim 27 wherein the tooling is comprised of

a housing;

means for storing medionine packages attached to the 1 housing;

means for obtaining a medicine package, said obtaining means slidingly attached to the housing such that it can move in/a Z direction, which is perpendicular to the X and Y dixections, to pick a medicine package from a support structure when the housing is adjacent to and aligned with a support rod, and can move in the Z direction to place a picked package on the storing means; and

wherein the identifying means is part of the gripper such that it can identify a package to be picked by the obtaining means, each of said packages having an identity disposed on them which can be read by the identifying means.

- 29. A system described in claim 28 wherein the identity of each package is a bar code, and the identifying means ingludes a bar code reader disposed on the obtaining means.
 - 30. A system as described in claim 29 wherein

the obtaining means includes means for producing a suction; a suction rod in fluidic connection with the suction producing means, said suction rod slidingly attached with respect to the Y and Z directions to the housing and maintaining a suction therethrough when the suction producing means is activated;

a suction is connected to the suction rod through which a medicine package is picked with suction; and means for sensing when a package is properly positioned on the suction head such that the package rod is then moved to the storing means and deposits the package thereon.

- 31. A system as described in claim 30 wherein the storing means is a storing rod which extends from the housing such that the suction head and the suction rod can deposit a package thereon.
- 32. A system as described in claim 31 wherein the tooling includes valves and pneumatic cylinders for moving the syction rod in the Y and Z direction; and a vacuum pump for

- 33. A system as described in claim 32 wherein the suction head has two faces through which a suction can be drawn, each face capable of picking a package.
- 34. A system as described in claim 33 wherein the two faces are parallel to each other and are parallel to the x-axis, and wherein each package has a face and the package are held by the storing rod and the rods of the support structure such that the face of each package is parallel to the x-axis.
- 35. A system as claimed in claim 24 wherein the rods extend from the back rod supports in sets of two, with a first rod and a second rod on each set pointing essentially in a Z direction, which is perpendicular to the X and Y directions, but approximately 180% apart from each other, and wherein the picking means includes a first gripper and a second gripper that picks the medicine packages; and a first and second tooling support structure / each tooling support structure having at least one column and at least one row to support the column, such that the first and the second tooling moves along the respective column and the respective column moves along the respective row of the first and second tooling support structure, respectively, to pick

a given medicine package from a corresponding support rod, or restock a support rod with an associated medicine package.

picking means includes at least one gripper that picks the packages; and a tooling support structure having at least one column to support the tooling and at least one row to support the column such that the tooling moves along the column as the column moves along the row to pick a given package hanging from a corresponding support rod, said gripper able to turn on the column to pick packages on either the first or second holding means; and

means for moving the column with respect to the row, said moving means controlled by a computer and in communication therewith.



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ABSTRACT OF THE DISCLOSURE

A system for filling orders, such as prescriptions for patients, comprising a device for holding packages. Each package has the same type of contents being held in a predetermined location by the holding device. Each package has an identity which defines the contents therein. The holding device has a plurality of predetermined locations corresponding to a plurality of different types of contents. Additionally, the system is comprised of a device for supplying packages to the holding device. Also, there is a device for picking a package from the holding device that is identified in the order for the purpose of restocking the holding device. The picking device is in communication with the holding device and supplying device. In a preferred embodiment, the contents of each package is a single dosage of medicine.

Docket No. 920015

DECLARATION AND POWER OF ATTORNEY

I, the below named inventor, hereby declare that:

My residence, post office address and citizenship is as stated below next to my respective name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

Thereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, Lacknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing of this application.

Application Serial No.	Filing Date	Status (Patented, Pending, Abandoned)
07/469,217	1/24/90	Pending
·		Manufacture
		
***************************************	THE REAL PROPERTY OF THE PARTY	
Marie Committee		

I hereby declare that all statements made hereby of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Lynn J. Alstadt, Reg. No. 29,362; George P. Baier, Reg. No. 26,717; Paul A. Beck, Reg. No. 22,289; Michael L. Dever, Reg. No. 32,216; Gordon Harris, Reg. No. 15,384, George Raynovich, Jr., Reg. No. 19.829 and Alvin E. Ring, Reg. No. 18,697.

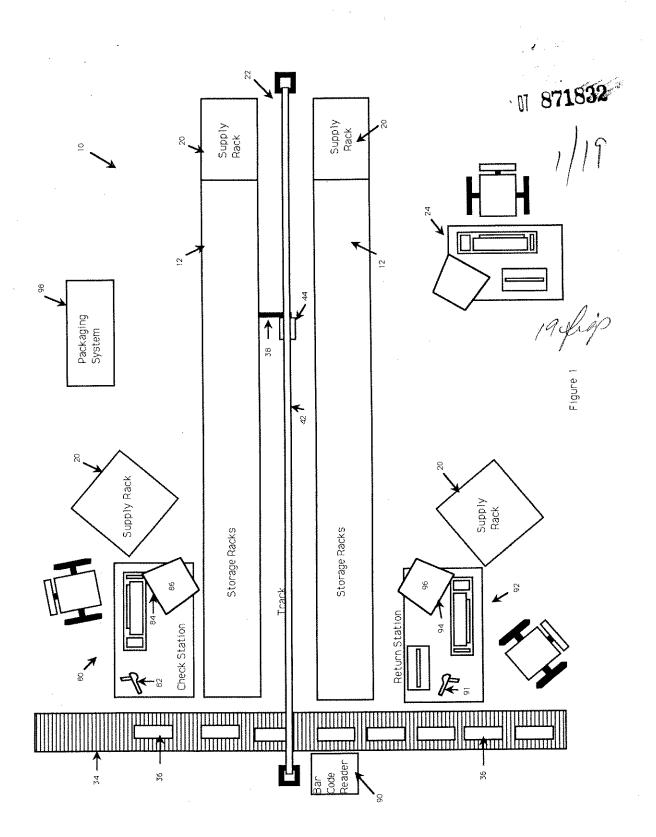
Address all telephone calls to Lynn J. Alstadt

Address all correspondence to Buchanan Ingersoil Professional Corporation.

56th Floor, 600 Grant Street Pittsburgh, Pennsylvania 15219-(412) 562-1632

1-00	•
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Full name of second joint inventor, if any <u>Ellen J. Hertz</u>	
Inventor's Signature	Date
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Full name of third joint inventor. If any James A. Smith	
Inventor's Signature	Date 4/20/9ス
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Full name of fourth joint inventor, if any Gregory Toto	
Inventor's Signature	Date
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	*
Full name of fifth joint inventor, if any	Doto
Inventor's Signature	Date
Residence	Citizenship
Post Office Address	

Applicant of Tatenteean	C. MCDONATU EL AL.	
Attorney's Serial or Paten o.:		Docket No.: 920015
Filed or Issued:		
AN AUTOMATED SYSTEM FC	R SELECTING AND DELIVERING P	ACKAGES FROM A STORAGE AREA
VERIFIED STATEM	MENT (DECLARATION) CLAIMING 9(f) and 1.27(c)) - SMALL BUSINES	S SMALL ENTITY STATUS SS CONCERN
I hereby declare that I am		
X an official of the small b	ousiness concern identified below: ousiness concern empowered to act of Automated Healthcare, In	n behalf of the concern identified below:
defined in 13 CFR 121.3-18, and 41(a) and (b) of Title 35, United of its affiliates, does not exceed of the business concern is the ava full-time, part-time or tempora are affiliates of each other when	reproduced in 37 CFR 1.9(d), for p 1 States Code, in that the number c 500 persons. For purposes of this s erage over the previous fiscal year o	
concern identified above with reg	ard to the invention, entitled AN AIF	ed to and remain with the small business IOMATED SYSTEM FOR SELECTING AND by inventor(s) Sean C. McDonald, Toto
the specification filed her application serial no patent no	rewith , filed , issued	•
or organization having rights to person, other than the inventor, any concern which would not que under 37 CFR 1.9(e). *Note:	the invention is listed below* and n who could not qualify as a small b alify as a small business concern un	not exclusive, each individual, concern to rights to the invention are held by any usiness concern under 37 CFR 1.9(d) or by der 37 CFR 1.9(d) or a nonprofit organization of the concern of the small entities. (37 CFR 1.27)
NAME		
ADDRESS		Nonprofit Organization
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in loss of entitlement to small en	ntity status prior to paying, or at t	tion of any change in status resulting he time of paying, the earliest of the as a small entity is no longer appropriate.
information and belief are believe that willful false statements and section 1001 of Title 18 of the I	ed to be true; and further that thes the like so made are punishable by United States Code, and that such v	dge are true and that all statements made of estatements were made with the knowledge fine or imprisonment, or both, under willful false statements may jeopardize the to which this verified statement is
NAME OF PERSON SIGNING	Sean C. McDonald	
	NG 261 Kappa Drive	
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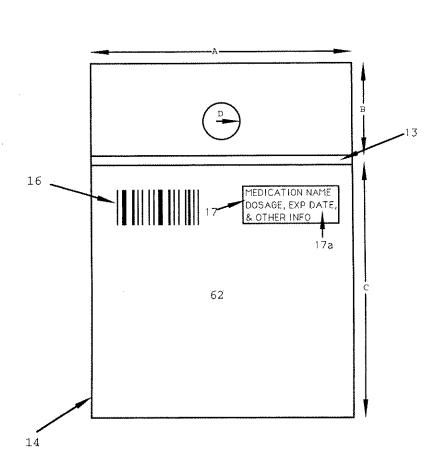


Figure 2

APPROVE		O.G. FIG.		
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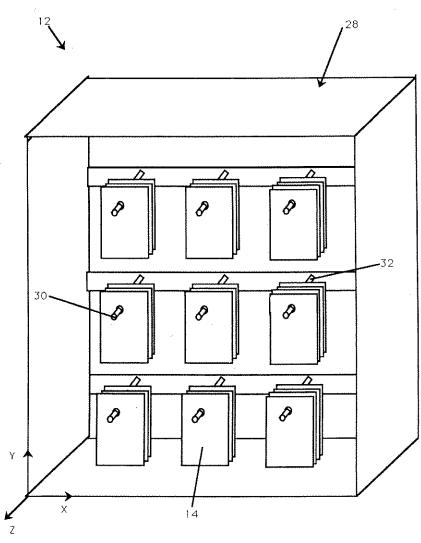
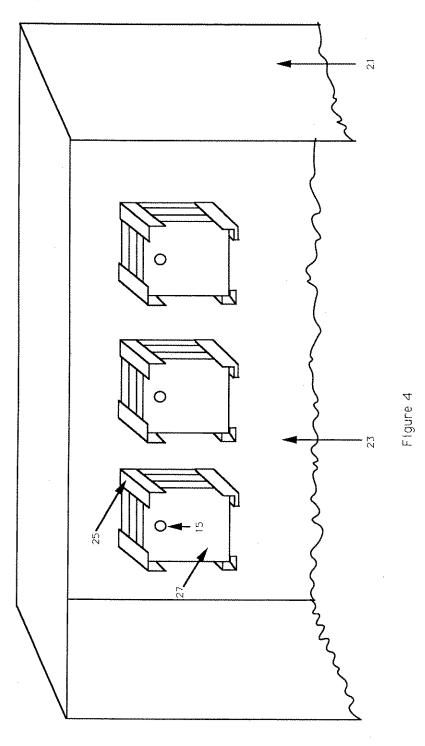


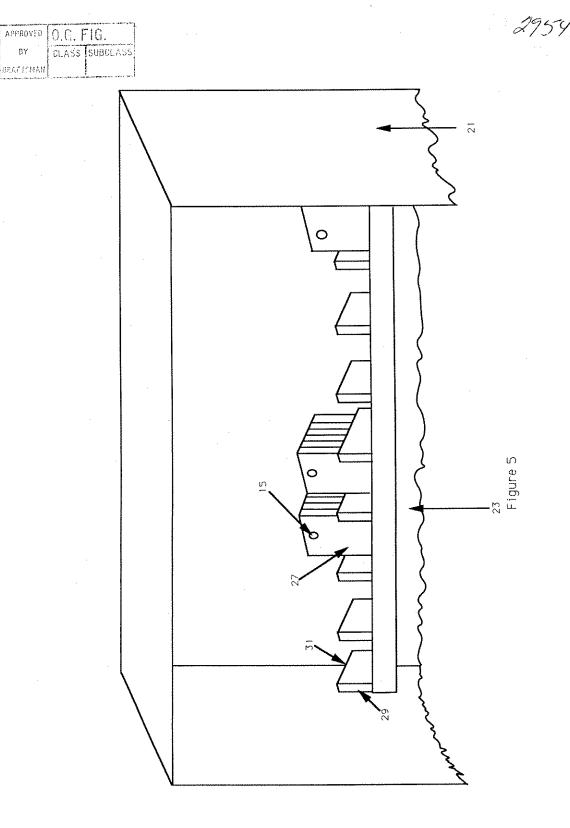
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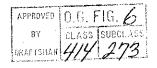


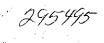


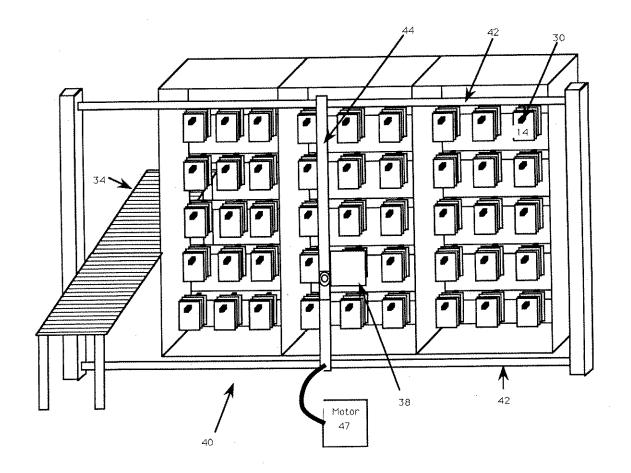


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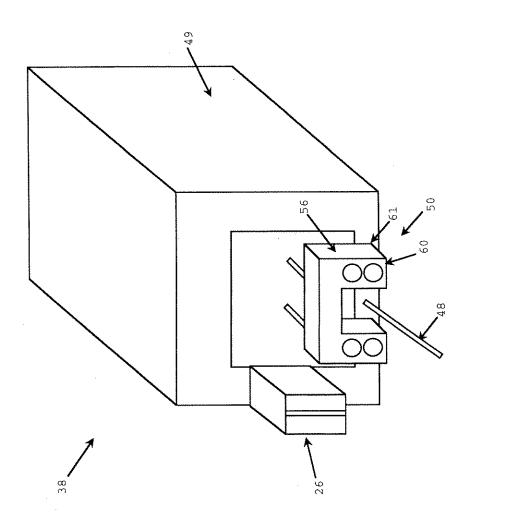
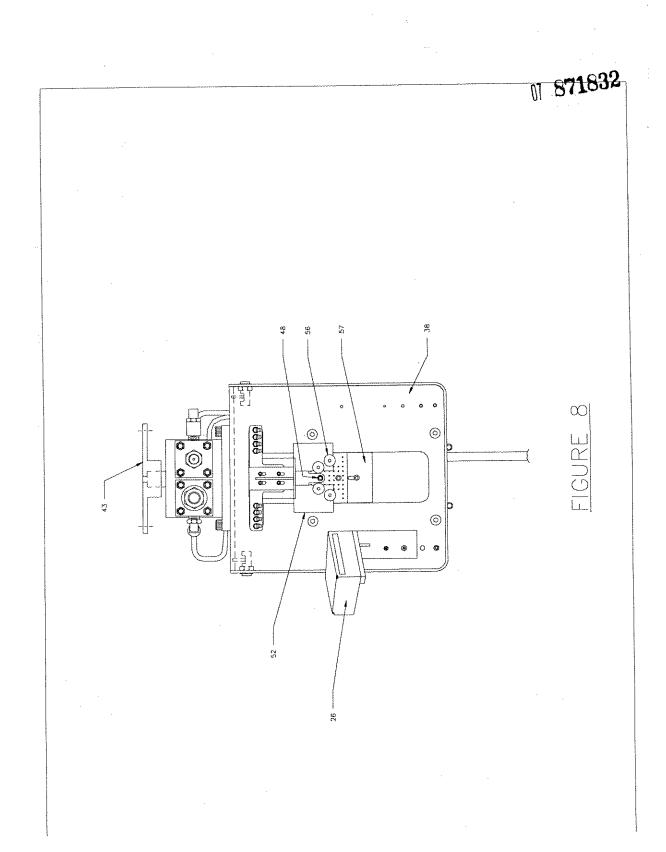
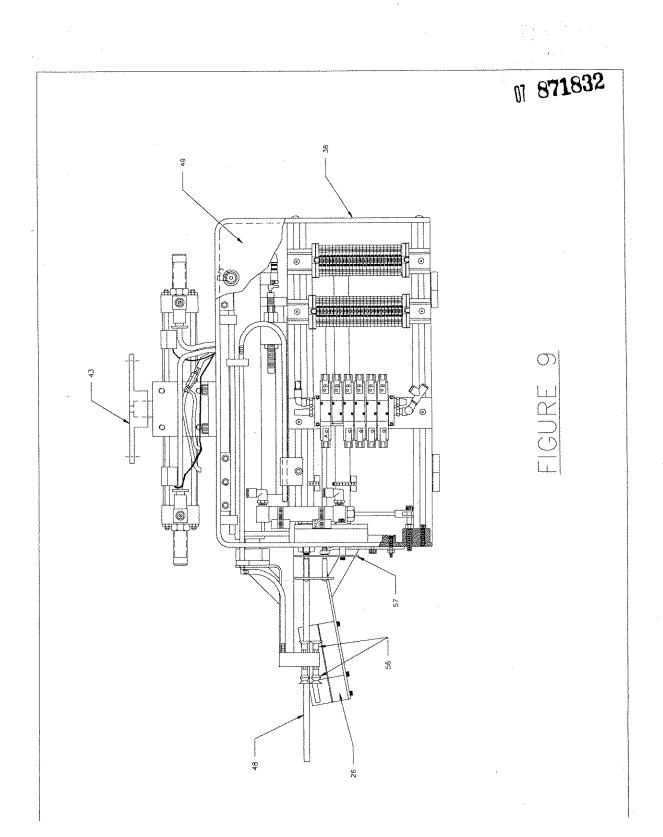
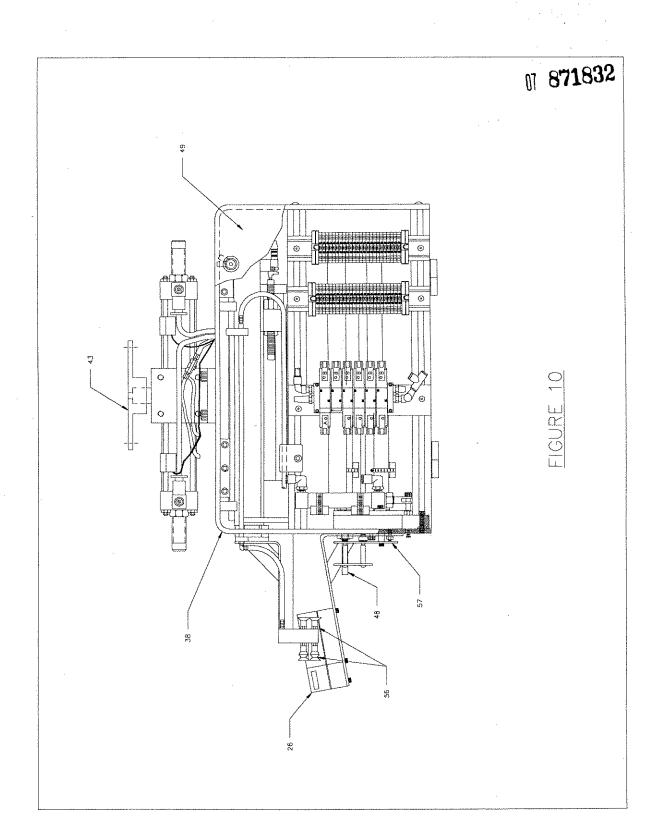
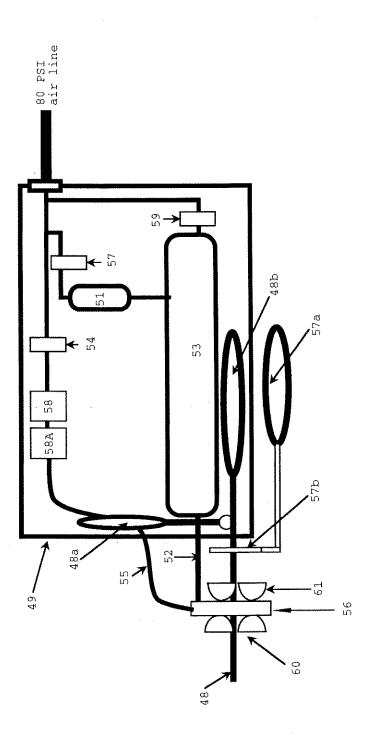


Figure 7

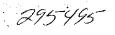








APPROVE B	0.G. F	FIG.
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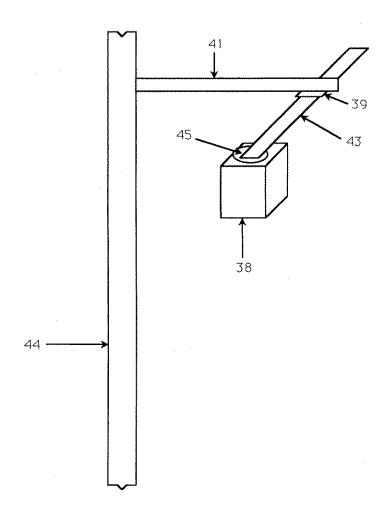
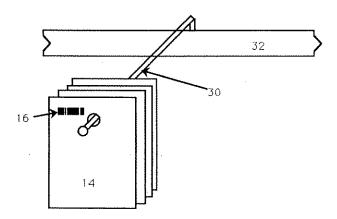


Figure 12

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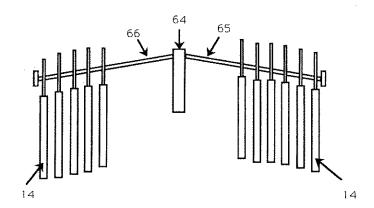
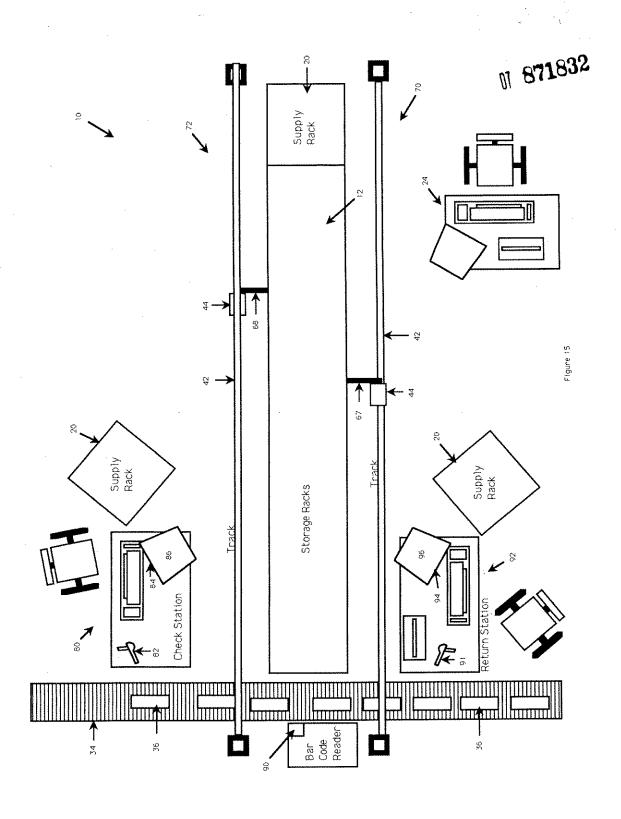
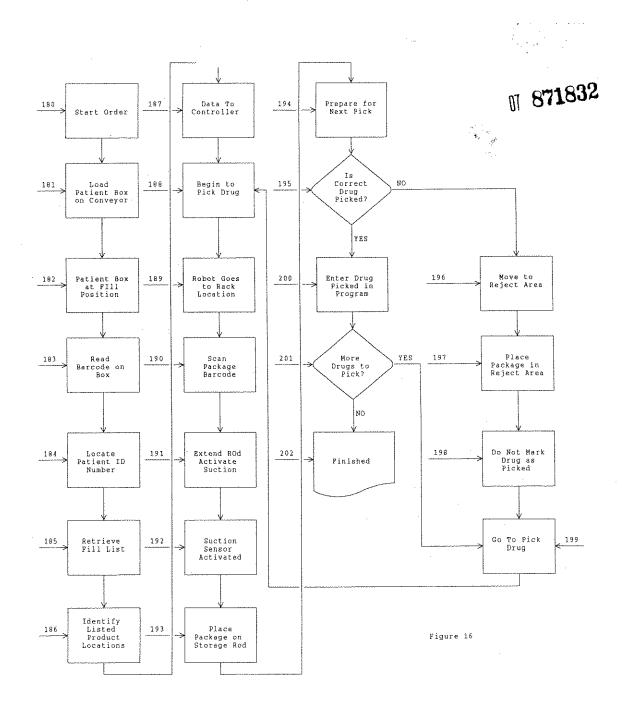
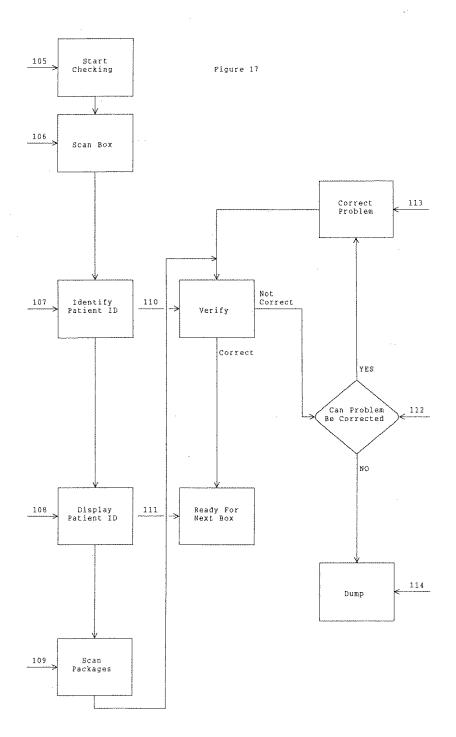


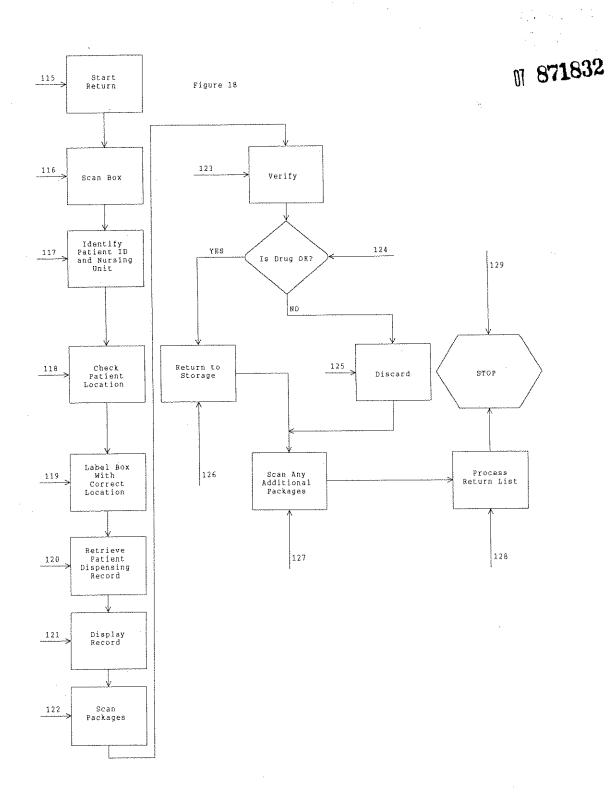
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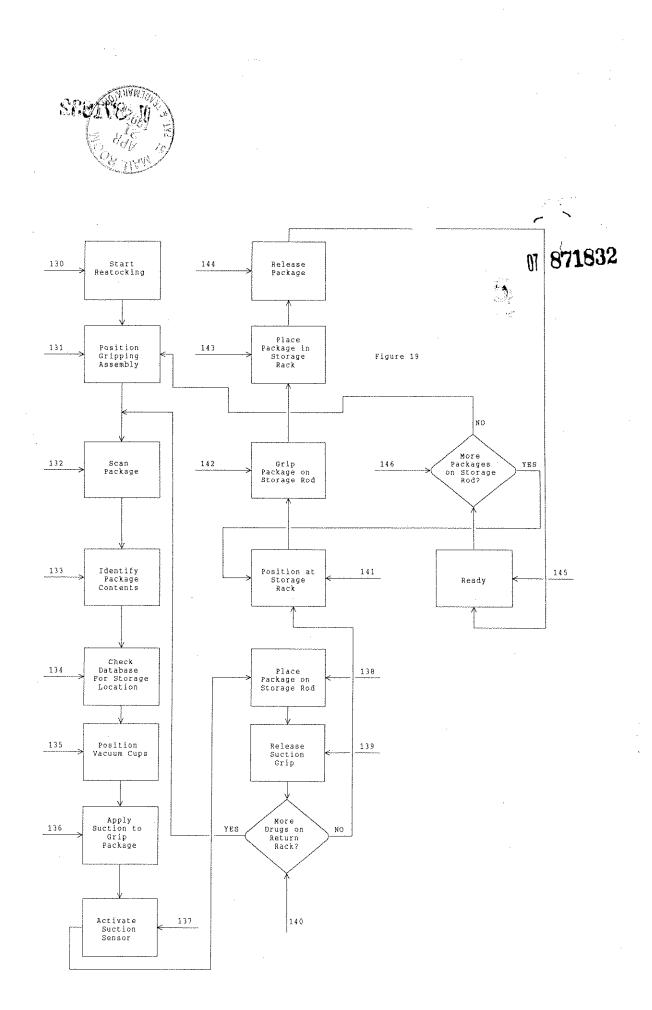






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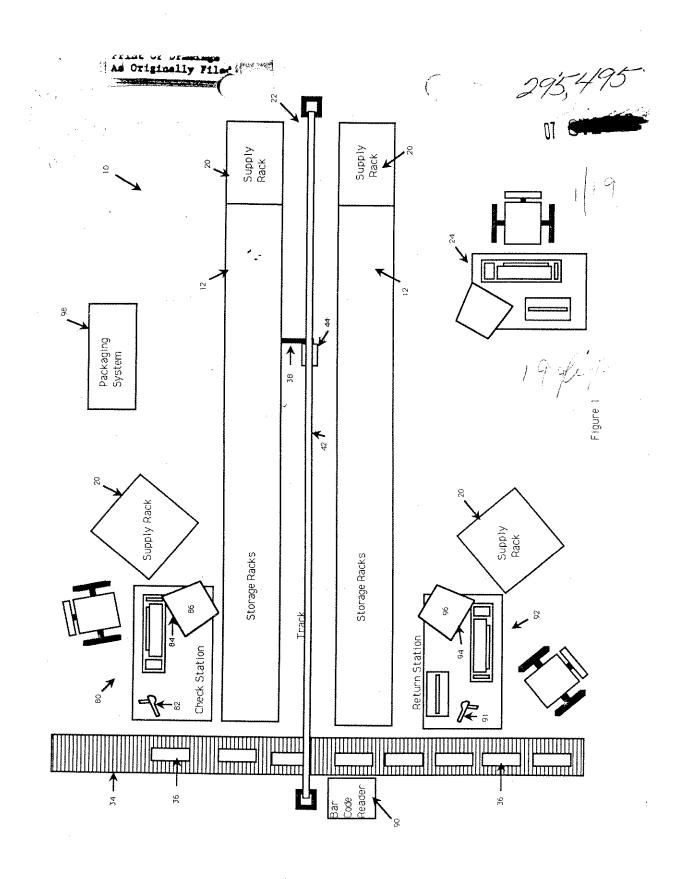
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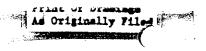
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Lynn J. Alstadt

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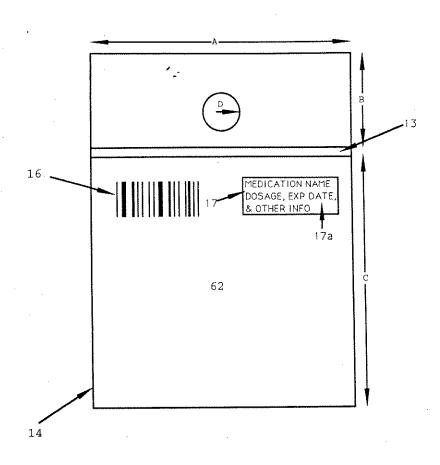


Figure 2

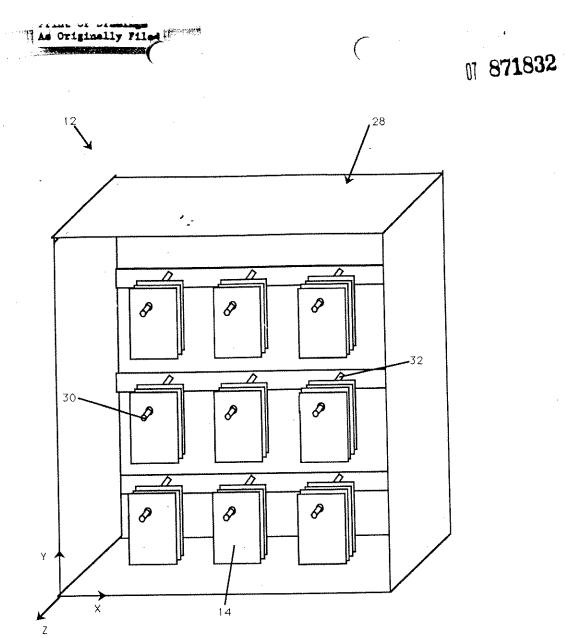
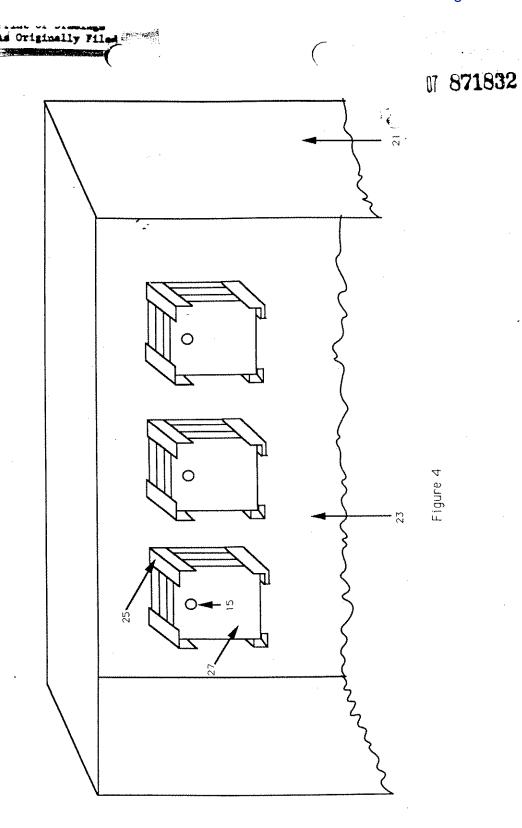
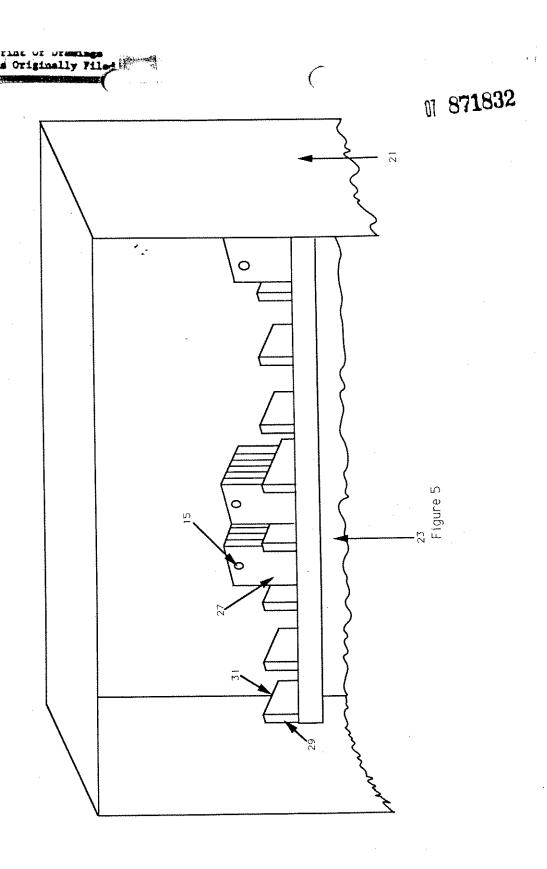
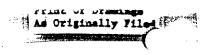


Figure 3







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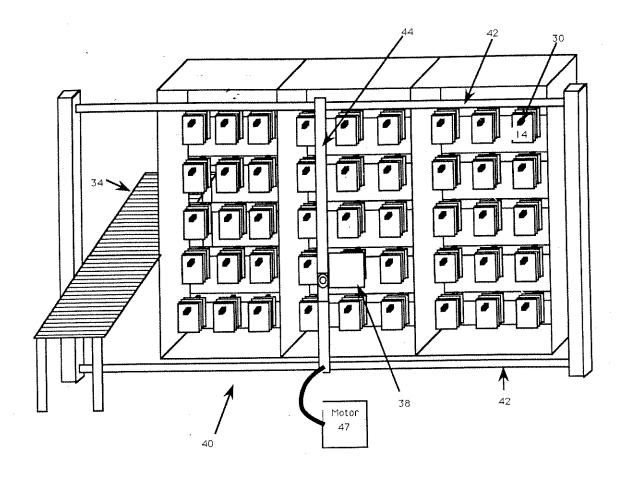
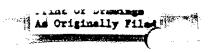


Figure 6



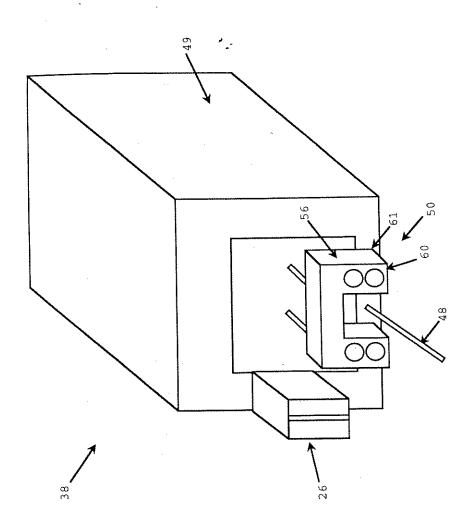
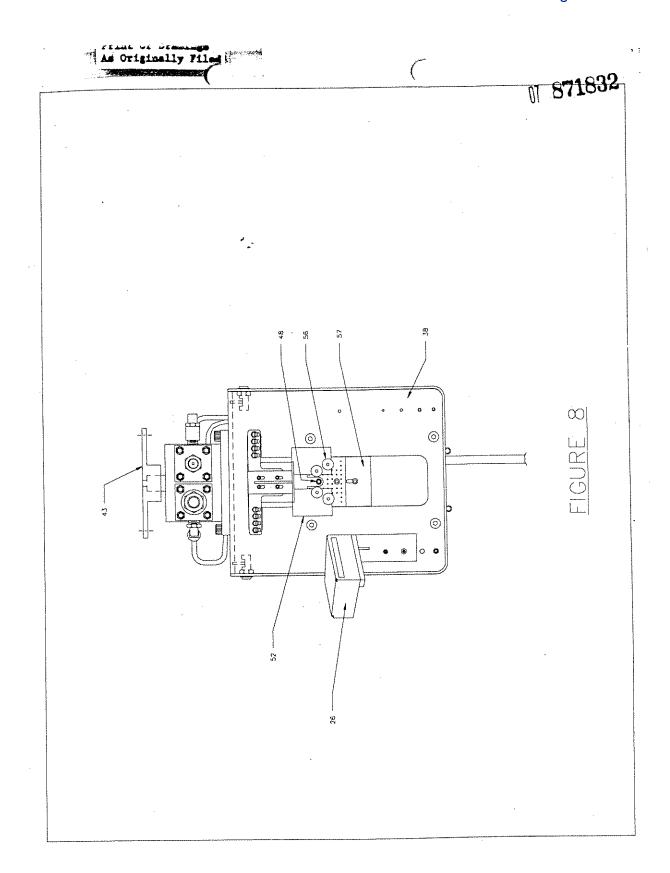
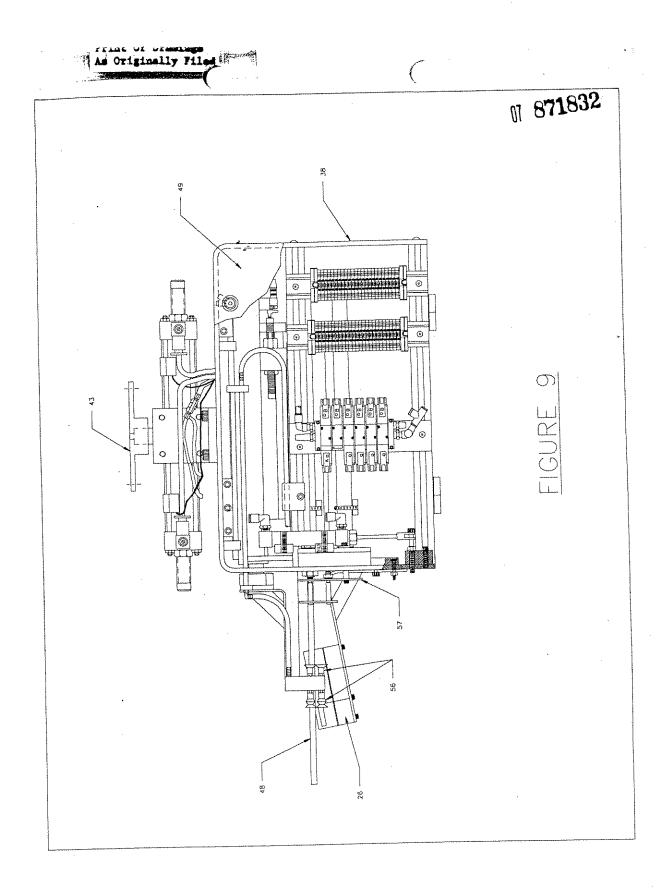
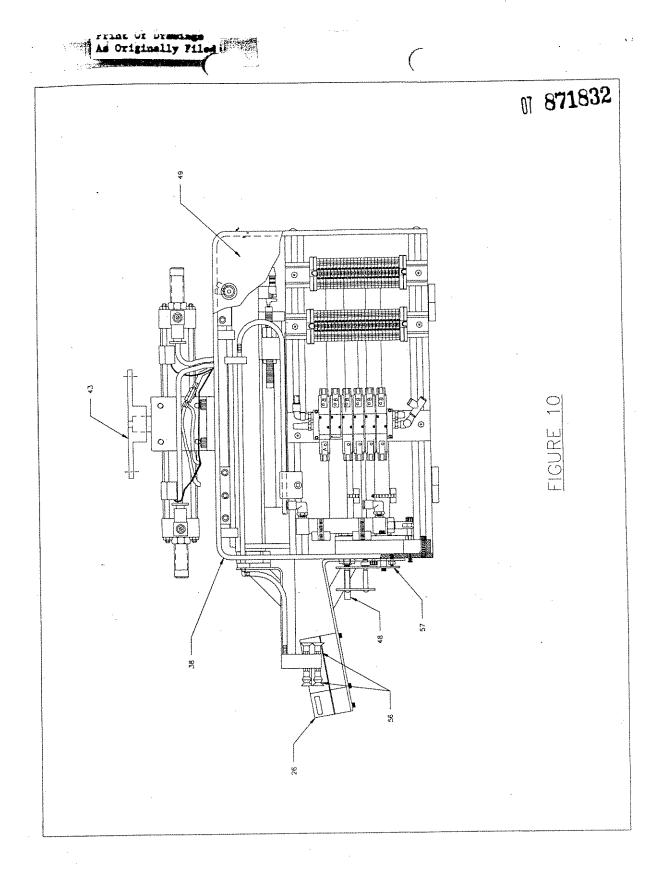
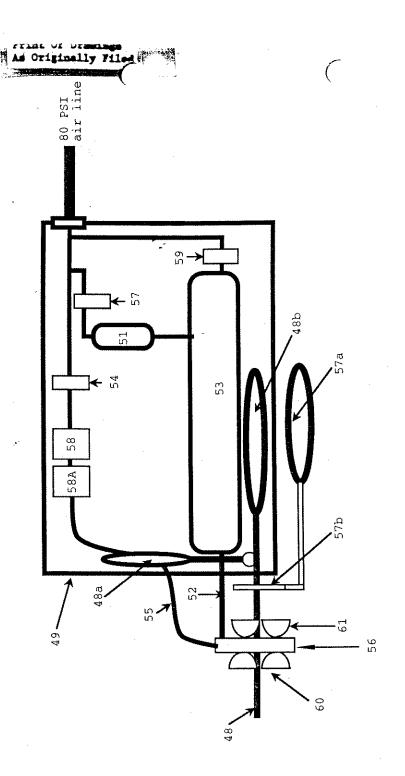


Figure 7



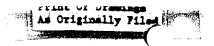






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Figure 11



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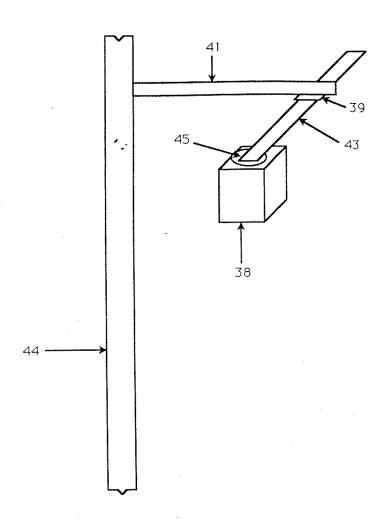
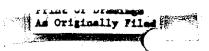


Figure 12



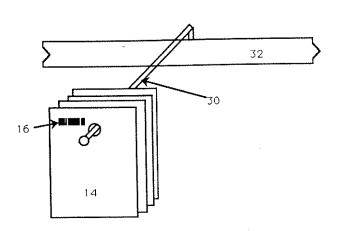
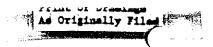


Figure 13



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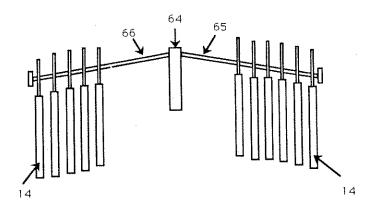
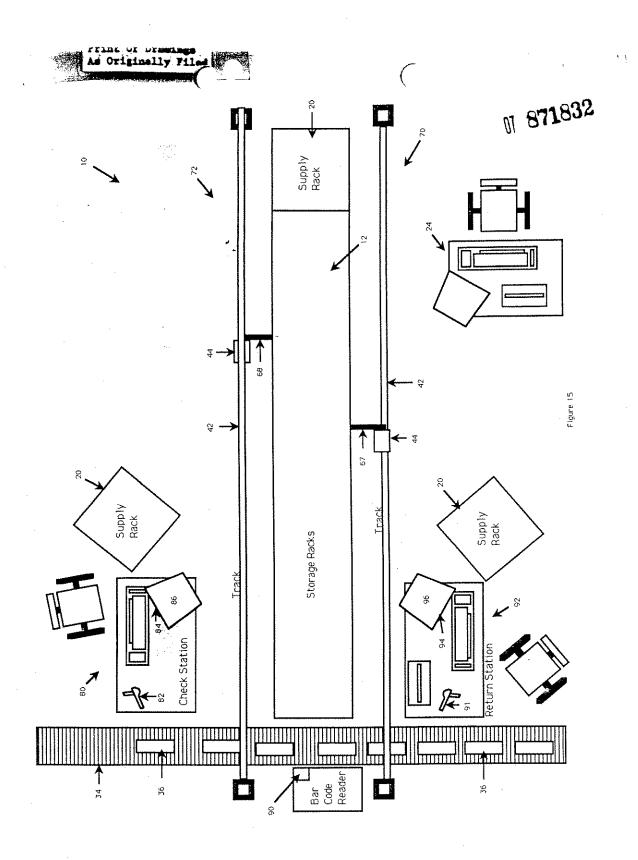
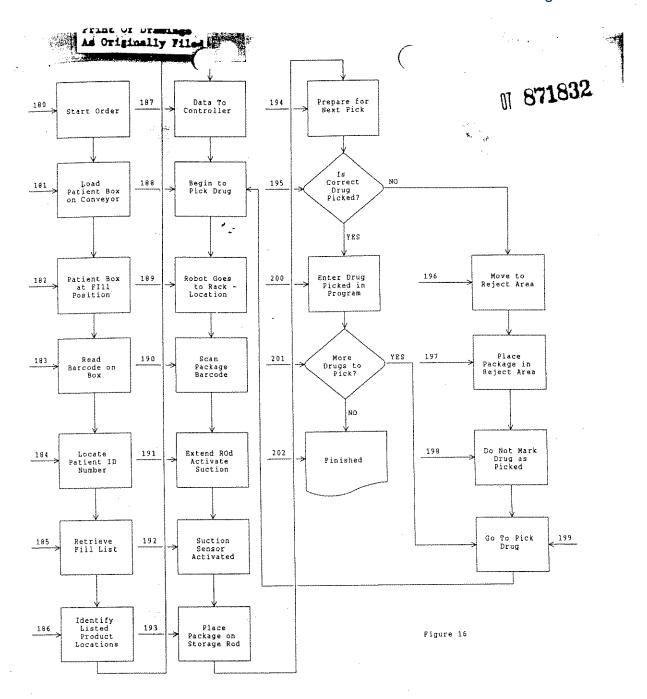
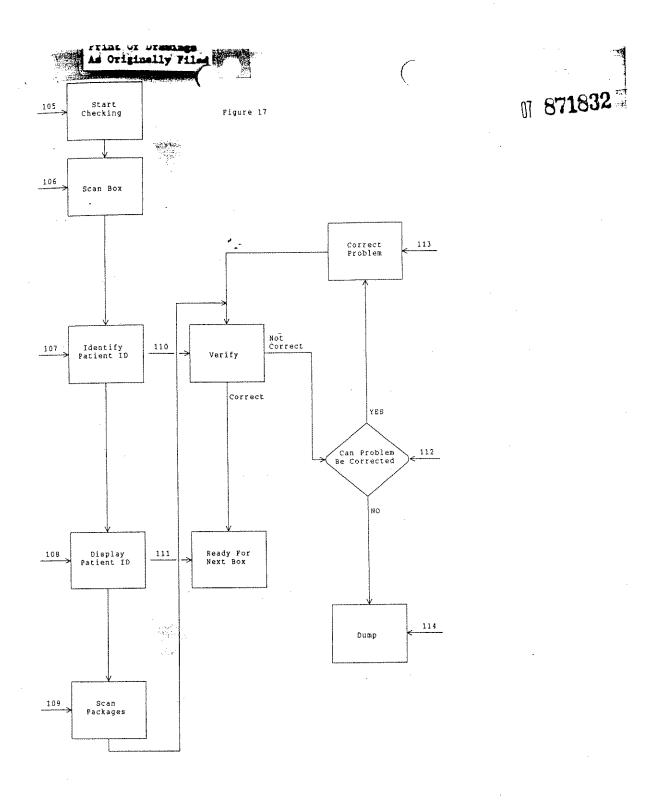
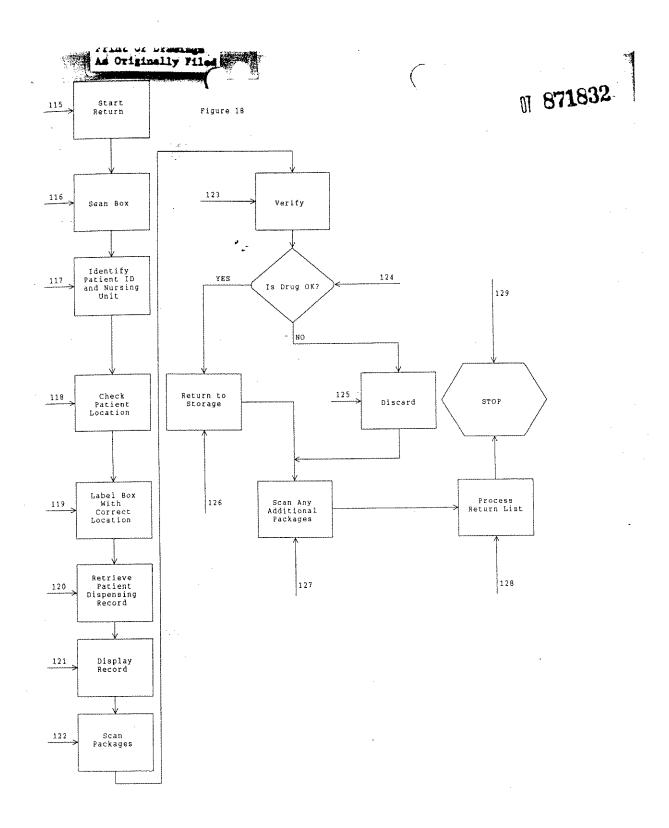


Figure 14

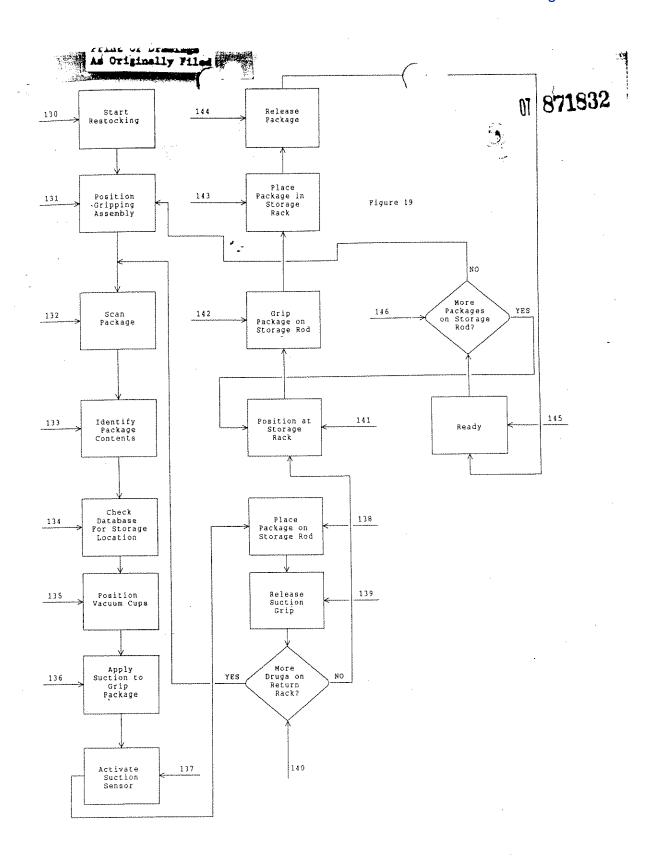








Document 351-8





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FIRST NAMED APPLICANT

ATTY DOCKET NO/TITLE

07/871,832

Special Handling Unit.

(703) **557:** <u>308-120</u>2

For: Manager, Application Division

04/21/92

MCDOMALD

5 920015

LYNN J. ALSTADT BUCHANAN INGERSOLL PROFESSIONAL CORP. 56TH FLOOR, 600 GRANT ST. FITTSBURGH, PA 15219

0000

DATE MAILED:

05/11/92

NOTICE TO FILE MISSING PARTS OF APPLICATION FILING DATE GRANTED

A filin	date has been granted to this application. However, the following parts are missing.							
	If all missing parts are filed within the period set below, the total amount owed by applicant as a							
□larg	\Box large entity, \Box small entity (verified statement filed), is \$ 65 \overline{-00}\$.							
1.□	The statutory basic filing fee is: \square missing \square insufficient. Applicant as a \square large entity							
	small entity, must submit \$ to complete the basic filing fee and MUST ALSO SUBMIT THE SURCHARGE AS INDICATED BELOW.							
2. 🗆	Additional claim fees of \$as a □ large entity □ small entity, including any required multiple dependent claim fee, are required. Applicant must submit the additional claim fees or cancel the additional claims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.							
3. □	The oath or declaration: is missing. does not cover items omitted at time of execution.							
•	An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.							
4. 🗆	The oath or declaration does not identify the application to which it applies. An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.							
5. 🗆	The signature to the oath or declaration is: missing; a reproduction; by a person other than the inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW							
6. 🗹	The signature of the following joint inventor(s) is missing from the oath or declaration: Lower to The An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Receipt Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.							
7. 🗆	The application was filed in a language other than English. Applicant must file a verified English translation of the application and a fee of \$30.00 under 37 CFR 1.17(k), unless this fee has already been paid. NO SURCHARGE IS RERQUIRED FOR THIS ITEM.							
8. 🗆	A \$50.00 processing fee is required for returned checks. (37 CFR 1.21(m)).							
9. 🗆	Your filing receipt was mailed in error because check was returned without payment.							
0. 🗆	Other. 12700 6500							
	An Application Number and Filing Date have been assigned to this application. The missing parts and fees dentified above in items 1 and 3-6 must be timely provided ALONG WITH THE PAYMENT OF A SURCHARGE of \$130.00 for large entities or \$60.00 for small entities who have filed a verified statement laiming such status. The surchage is set forth in 37 CFR 1.16(e). Applicant is given ONE MONTH FROM THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of this application, WHICHEVER IS LATER, within which to file all missing parts and pay any fees required above to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).							

Direct the response to, and any questions about, this notice to ATTENTION: Application Division,

A copy of this notice <u>MUST</u> be returned with response.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

SEAN McDONALD et al.

Serial No. 07/871,832

Filed April 21, 1992

AN AUTOMATED SYSTEM FOR SELECTING AND

DELIVERING PACKAGES FROM

A STORAGE AREA

LETTER

Pittsburgh, Pennsylvania 15219

June 22, 1992

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

This is in response to the Notice to File Missing Parts of Application mailed May 11, 1992. Submitted herewith is an original supplemental Declaration and Power of Attorney signed by the four inventors of the above-identified patent application. A check in the amount of \$65.00 is also enclosed to cover the surcharge fee. Any additional fees may be charged against deposit account No. 02-4553.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231,

June

(412) 562-1632

Registration No. 29,362

Attorneys for Applicants



Docket No. 920015

DECLARATION AND POWER OF ATTORNEY

I, the below named inventor, hereby declare that:

My residence, post office address and citizenship is as stated below next to my respective name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled AN AUTOMATED SYSTEM FOR SELECTING AND DELIVERING PACKAGES FROM A STORAGE AREA, the specification of which was filed on April 21, 1992, and bears Serial No. 07/871,832. Thereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing of this application.

Application Serial No.	Filing Date	Status (Patented, Pending, Abandoned)
07/469,217	1/24/90	Abandoned
And the second s		

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I hereby declare that all statements made hereby of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith: Lynn J. Alstadt, Reg. No. 29,362; George P. Baier, Reg. No. 26,717; Paul A. Beck, Reg. No. 22,289; Michael L. Dever, Reg. No. 32,216; Craig N. Killen, Reg. No. 35,218; George Raynovich, Jr., Reg. No. 19,829 and Alvin E. Ring, Reg. No. 18,697.

Address all telephone calls to Lynn J. Alstadt

Address all correspondence to Buchanan Ingersoll Professional Corporation,

56th Floor, 600 Grant Street Pittsburgh, Pennsylvania 15219 (412) 562-1632

1.00		
Full name of sole or first inventor Sean C. McDonald		
nventor's Signature can McLonald a	Date 6-(9-92
Residence Pittsburgh, Allegheny County, Pennsylvania //a	_Citizenship _	USA
Post Office Address 419 South Braddock Avenue, Pittsburgh, Penn	sylvania	15221
2.00		
~	1	
Full name of second joint inventor, if any Ellen J. Hertz nventor's Signature West Hertz	Date / -	0-95
Residence Clemmons, Forsyth County, North Carolina NC	Cate Citizenship	8-12-
Post Office Address 4232 Lake Cliff Drive, Clemmons, North Caro		USA 1.2
OSI ONICE AUDIESS 1232 Haire CITIT DITYO, CIONMOND, NOT BY CALL		
3-100	•	
Full name of third joint inventor, if any James A. Smith		
nventor's Signature Ame a Ameth	Date し/	19/92
Residence Allison Park, Allegheny County, Pennsylvania	Peitizenship	USA
Post Office Address 3909 Ash Drive, Allison Park, Pennsylvania	15101	
Λ		
4-00		
Full name of fourth joint inventor, if any Gregory Toto	D	, , , , , , , , , , , , , , , , , , ,
nventor's Signature (100) Residence Santa Cruz, Santa Cruz County, California (100)	Date/	18/97
	Citizenship	USA
Post Office Address 815B Corcoran Avenue, Santa Cruz, Californ	ia 95062	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	•	
Full name of fifth joint inventor, if any		
nventor's Signature	Date	
Residence	Citizenship	
Post Office Address		





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

FILING DATE

FIRST NAMED APPLICANT

ATTY DOCKET NO /TITLE

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DATE MAILED:

NOTICE TO FILE MISSING PARTS OF APPLICATION FILING DATE GRANTED

46年1月

		S I Same Good Same	VENU
A fi	ling date has been granted to this application. However, the following parts are missing.	JUN 30	1002 !
If a	ll missing parts are filed within the period set below, the total amount owed by applicant as	a	1994
□la	arge entity, I small entity (verified statement filed), is \$	APPLICATION	V BRANCH
1. 🗆	The statutory basic filing fee is: \square missing \square insufficient. Applicant as a \square large entity		
	☐ small entity, must submit \$ to complete the basic filing fee and I SUBMIT THE SURCHARGE AS INDICATED BELOW.	MUST ALSO	
2. 🗆	Additional claim fees of \$as a □ large entity □ small entity, including any redependent claim fee, are required. Applicant must submit the additional claim fees or cancellaims for which fees are due. NO SURCHARGE IS REQUIRED FOR THIS ITEM.	equired multiple of the additional	·
3. □	The oath or declaration:		
	 is missing. does not cover items omitted at time of execution. 		
	An oath or declaration in compliance with 37 CFR 1.63, identifying the application by the abo Number and Filing Date is required. A SURCHARGE MUST ALSO BE SUBMITTED AS BELOW.	ove Application 3 INDICATED	4
4. 🗆	The oath or declaration does not identify the application to which it applies. An oath of compliance with 37 CFR 1.63, identifying the application by the above Application Number is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.	r declaration in and Filing Date	
5. 🗆	The signature to the oath or declaration is: missing; a reproduction; by a person inventor or a person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath of compliance with 37 CFR 1.63, identifying the application by the above Application Number is required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW		
6. ₪	The signature of the following joint inventor(s) is missing from the oath or declaration:		
٠	the omitted inventor(s), identifying this application by the above Application Number and required. A SURCHARGE MUST ALSO BE SUBMITTED AS INDICATED BELOW.	s and signed by Receipt Date is	
7. 🗆	The application was filed in a language other than English. Applicant must file a ver translation of the application and a fee of \$30.00 under 37 CFR 1.17(k), unless this fee head. NO SURCHARGE IS RERQUIRED FOR THIS ITEM.	ified English as already been	
8. 🗆	A \$50.00 processing fee is required for returned checks. (37 CFR 1.21(m)).		
9. 🗆	Your filing receipt was mailed in error because check was returned without payment.		
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	SURCHARGE of \$120.00 for large entities or \$60.00 for small entities who have filed a ver- claiming such status. The surchage is set forth in 37 CFR 1.16(e). Applicant is given ONE M THE DATE OF THIS LETTER, OR TWO MONTHS FROM THE FILING DATE of the WHICHEVER IS LATER, within which to file all missing parts and pay any fees required abandonment. Extensions of time may be obtained by filing a petition accompanied by the	ified statement IONTH FROM is application,	:

Direct the response to, and any questions about, this notice to ATTENTION: Application Division, Special Handling Unit.

A copy of this notice <u>MUST</u> be returned with response.

For: Manager, Application Division (703) 557=<u>(2.7.7.7.3</u>

under the provisions of 37 CFR 1.136(a).

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PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

SEAN McDONALD et al.

Serial No. 07/871,832

Filed April 21, 1992

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AN AUTOMATED SYSTEM

FOR SELECTING AND

DELIVERING PACKAGES FROM

A STORAGE AREA

REGEIVED

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. \$1.56

1111 2 8 1992

GROUP 230

Pittsburgh, Pennsylvania 15219

July 21, 1992

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

sir:

The above-identified patent application is a continuation-in-part of Serial No. 07/469,217, now abandoned. Applicants advise the Office that the only pertinent prior art of which they are aware was cited in the parent application or its corresponding European counterpart. A copy of the European search report and references there cited is enclosed.

Respectfully submitted, BUCHANAN INGERSOLL, P.C.

Heneby cartify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231,

Registration No. 29,362

Attorneys for Applicants

(412) 562-1632

Buchahan Inders

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OFFICE Branch at The Hague Search Division

OFFICE EUROPEEN DES BREVETS

Département à La Have Division de la recherche

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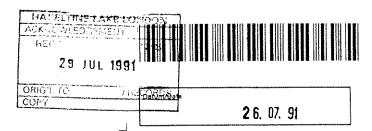
Telex 31651 (070) 340-20 40 BREVPATENT



Jones, Michael Raymond HASELTINE LAKE & CO. Hazlitt House 28 Southampton Buildings Chancery Lane London WC2A 1AT GRANDE BRETAGNE

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Figure:



L Anmeldung Nr /Application No /Demande n° //Patent Nr /Patent No /Brevet n' Zeichen/Ref /Réf. 91300543.5-HL42220/000/MRJ Anmelder/Applicant/Demandeur//Patentinhaber/Proprietor/Titulaire AUTOMATED HEALTHCARE, INC.

COMMUNICATION

The European Patent Office herewith transmits

X	the European search report			
	the declaration under Rule 45 of the	European Patent Convention		
	the partial European search report to	inder Rule 45 of the European Patent Conver	ntion	
	the supplementary European search	report concerning the international applicati	on numb	ber
rela	ting to the above-identified European	patent application; copies of the documents of	ited in t	he search report are enclosed.
Search	n Division approved the following item	s, as submitted by the applicant:		
X	Abstract	Title		Figure
	The abstract was modified by the Se	arch Division and the definitive text is attach	ed to the	e present communication.
ď	The following figure will be published	d with the abstract, since the Search Division	conside	ers that it better characterises th
	invention than the one indicated by t	he applicant.		

REFUND OF THE SEARCH FEE

If applicable under Art.10 of the Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent to you later.

Additional copy(les) of the documents cited in the European search report.



EPO Form 1507 07.90



EUROPEAN SEARCH REPORT

Application Number

EP 91 30 0543

ategory	Citation of document with i of relevant ps	ndication, where appropriate, ssages	Relevant to claim	CLASSIFICATION OF THI APPLICATION (Int. CL.5)
X	US-A-4 678 390 (BC * Column 6, lines 5 lines 33-47; column column 16, lines 3-	13. lines 46-54:	1,19,20	B 65 G 1/137
Y	, ,,,, <u></u>	,	2,3,4,5 ,8,18	
A			11,12, 21,22, 23	
Y	FR-A-2 596 299 (CC D'AUTOMATISME CGA-H * Page 6, line 28 - figures *	BS)	2,3,4,5	
A	US-A-3 986 612 (KA		1,22	
X	* Column 1, lines 3	2-46; figures *	19	
Α	WO-A-8 601 386 (SC * Page 11, lines 3-	CIETE VYNEX) 13: figures *	6,21	TECHNICAL FIELDS
		20, 1134.02		SEARCHED (Int. Cl.5)
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THE	HAGUE	Date of completion of the search 26-06-1991	OSTY	Examiner (N.T.J.M.
X : part Y : part	CATEGORY OF CITED DOCUME icularly relevant if taken alone icularly relevant if combined with an unent of the same category	NTS T: theory or print E: earlier patent after the filins	ciple underlying the document, but publ	invention ished on, or

EPO FORM 1503 03:82 (P0401)

document of the same category
A: technological background
O: non-written disclosure
P: intermediate document

&: member of the same patent family, corresponding document

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 91 30 0543

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 17/07/91

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date		family per(s)	Publication date
US-A- 4678390	07-07-87	EP-A,B	0235488	09-09-87
FR-A- 2596299	02-10-87	US-A- US-A-	4874281 4971513	17-10-89 20-11-90
US-A- 3986612	19-10-76	None		
WO-A- 8601386	13-03-86	FR-A- AU-A- CA-A- DE-A- EP-A,B US-A-	2569548 4775185 1240769 3562863 0192690 4797819	07-03-86 24-03-86 16-08-88 30-06-88 03-09-86 10-01-89



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3101

PATENT APPLICATION

In re application of

SEAN MCDONALD ET AL.

AN AUTOMATED SYSTEM FOR SELECTING AND

Serial No. 871,832

DELIVERING PACKAGES FROM A

STORAGE AREA

Filed April 21, 1992

STATUS LETTER

Pittsburgh, Pennsylvania

September 23, 1993

Hon. Commissioner of Patents and Trademarks

Washington, D. C. 20231

Sir:

Please advise us of the status of the above-identified patent application.

Respectfully submitted,

Byung gestadt

Lynn J. Alstadt

Registration No. 29,362 BUCHANAN INGERSOLL, P.C.

56th Floor, 600 Grant Street Pittsburgh, Pennsylvania 15219

(412) 562-1632

Status Letter

Expected date for

action on this application with action of 10/93

Examiner

FRANK E. WERNER PRIMARY EXAMINER



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Sno7/87/832 Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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V T	hls a∣	pplication has bee	en examined	Responsive to communication	ation filed on	·	This action is made final.
A sho	rtene	ed statutory neriod	f for response to thi	s action is set to expire	. 3	ath(e)	ys from the date of this letter.
				e will cause the application to t			•
Part i		/) ARE PART OF THIS ACTION	_/		
1. 3.	ᅋ		nces Cited by Exami ad by Applicant, PTo			e Patent Drawing, PTC	
5.				<i>J-</i> 1449.	Notice to	Transport to	ication, Form, PTO-152.
Part i	ı	SUMMARY OF A	ACTION				, J
		Claims 1-3	S la				
1.	<u>u</u>	Claims					are pending in the application
		Of the abo	ove, claims 2	1-35		are	withdrawn from consideration.
	_						
2.	ш	Claims					have been cancelled.
3.		Claims					are allowed.
	rra/	Claims 1-23	48 Law				
4.	· v	Claims F					are rejected.
5.		Claims					are objected to.
	rar	Claims 1	36	•			
0.	لشا	Claims				are subject to restrict	ion or election requirement.
7.		This application t	has been filed with I	nformal drawings under 37 C.F	F.R. 1.85 which i	are acceptable for exa	mination purposes.
8.	П	Formal drawings	are required in reer	oonse to this Office action.			
		1 United and united	are required at rest	onse to this Office Ection.			
9.				have been received on			F.R. 1.84 these drawings
		are L accepta	ble. I not accepta	able (see explanation or Notice	re Patent Draw	ving, PTO-948).	
10.		The proposed ad	ditional or substitut	e sheet(s) of drawings, filed on		has (have) been	approved by the
		examiner. \Box di	sapproved by the ex	caminer (see explanation).			,,,
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11.	لسا	тте ргорозеа ата	awing correction, file	ecron, ha	as been LLI ap	pproved. 🔟 disappro	oved (see explanation).
12.		Acknowledgment	is made of the clair	m for priority under U.S.C. 119	. The certified c	opy has 🔲 been red	ceived 🔲 not been received
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13.	LJ			in condition for allowance exce		atters, prosecution as	to the merits is closed in
		accordance with	me practice under t	x parte Quayle, 1935 C.D. 11;	453 O.G. 213.		•
14.		Other					

Serial No. 871832 Art Unit 317

-2-

-PART III-

- Restriction to one of the following inventions is required under 35 U.S.C. § 121:
- Claims 1-23 and 36, drawn to a storage area (with X-Y coordinates, automated picking means and a computer subcombination, classified in Class 414, subclass 273.
- II. Claims \$24-35, drawn to a holding means, supply means, picking means and a computer combination, classified in Class 414, subclass 281.
- The inventions are distinct, each from the other because of the following reasons:
- Inventions II and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations. (M.P.E.P. § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because at least base claim 1 (of the Group II invention) can have a non-gripping support picking means and can have the support rods in a non-X-Y arrangement. The subcombination has separate utility such as being utilized alone or in combinations.
- Because these inventions are distinct for the reasons given

Art Unit 317

-3-

above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- During a telephone conversation with Mr. Alstadt on Sept. 30, 1993 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-23 and 36. Affirmation of this election must be made by applicant in responding to this Office action. Claims 24-35 are withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b), as being drawn to a non-elected invention.
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- Claims 1-23 and 36 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A double inclusion of structure is present re "automated picking means "(claim 1, line 9), "a computer" (claim 1, line

-4-

Art Unit 317

15), "storage area locations" (claim 1, lines 11 and 12), "a package" (claim 3, line 2), "automated picking means" (claim 9, line 6), and "in memory" (claim 21, line 24). No antecedent basis exists for "the first or second holding means" (claim 36, lines 8 and 9). Further, re claim 1, it is not understood what the storage area locations are structurally comprised of; also, no means has been claimed to move the picking means; lastly, it is not clear how the types are distinguished from each other. Re claims 9 and 10, no means has been set forth to move the supply station and it is not clear as to what the supply station is structurally comprised of.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

9. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered

Art Unit 317 -5-

therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

10. Claims 1, 7, 9, 10, 12-14, 22 and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al.

Morello et al disclose storage areas 40, automated picking means 20, 62, etc. on tracks 98 (99) and computer means 16 to assign the package to X-Y coordinates (column 11, lines 11-17) and to control the picking means. It would have been obvious to have operated the system in the claimed manner. Re claim 9, note supply station 22. It would have been an obvious and conventional extension of Morello et al's matrix to have included a matrix supply station. Re claims 12 & 13, it would have been obvious to have programmed the computer in the claimed manner, if desired. Re claim 14, it would have been obvious to have included a conveyor to minimize manual intervention. Re claim 22, it would have been obvious to have handled medicine packages, if desired.

Re claim 10, the use of a conventional movable supply station to lend flexibility to the system would have been obvious.

11. Claims 3 & 2 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al as applied to claims 1, 7, 9, 10, 12-14, 22 and 23 above, and further in view of Boucher, Jr. et al

Art Unit 317

-6-

or Pohjonen. Boucher, Jr. et al (62,64) or Pohjonen et al (Sa) disclose and render obvious the substitution of a vacuum head. Re claim 3, Boucher, Jr. el (24,26) teach that it would have been obvious to have included a sensor for the package.

12. Claims 4-6 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al as applied to claims 1, 7, 9, 10, 12-14, 22 & 23 above, and further in view of O'Neil et al.

O'Neil et al (100,102, 97) teach and render obvious the use of a machine readable label to identify the contents. That the reader be conventionally attached to the gripper would have been obvious. Re claim 6, it would have been obvious to have included any relevant information on the label, including an expiration date.

13. Claims 8 & 11 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al as applied to claims 1, 7, 9, 10, 12-14, 22 & 23 above, and further in view of the European Patent.

It would have been obvious to have substituted rods and holes in the package as taught by the European Patent (1,15, etc.)

14. Claim 15 is rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al as applied to claims 1, 7, 9, 10, 12-14, 22 and 23 above, and further in view of Buttarazzi.

Buttarazzi (42,21,88,etc.) teach and render obvious the alternate use of containers (filled by picking means) placed on a

-7-

Serial No. 871832

Art Unit 317

conveyor. The use of conventional plural containers (as claimed) would have been obvious.

15. Claims 16-21 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Buttarazzi as applied to claim 15 above, and further in view of O'Neil et al or Henderson.

Re claim 16, it would have been obvious to have included a machine readable label as taught by O'Neil et al or Henderson The use of a conventional check station (re claims 20 and 21) operating as claimed would have been obvious.

16. Claim 36 is rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Buttarazzi & O'Neil et al or Henderson as applied to claims 16-21 above, and further in view of the European Patent.

Note the obviousness discussion of the European Patent above. It would have been obvious to have conventionally accessed the rods in the claimed manner.

- 17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F.E. Werner whose telephone number is (703) 308-1140.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

Summary:

Art Unit 317 -8-

Claims 1-23 and 36 are rejected

Claims 24-35 are withdrawn

Rejection-SSP 3 mos.

Werner/oc October 08, 1993 October 12, 1993

FRANK E. WEHNER
PRIMARY EXAMINER 10/93
GROUP 3100

PTO FORM 948 (Nev 5-91)
GROUP 3107

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

ATTACHMENT TO PAPER NU	MBER
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APPLICATION NUMBER	
87/833	

NOTICE OF DRAFTSMAN'S PATENT DRAWING REVIEW

The PTO Draftsman review all originally filed drawings regardless of whether they were designated as Informal er formal.

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	IN THE UNITED ST.	ATES PATENT AND TRADE	MARK OFFICE PATENT	
In re application of:	Sean McDonald e	Group No.:	3107	
Serial No.: 07/873	1,832	Manual Ma	F. Werner	
Filed: April	21, 1992	, con	9. 事 6.	
For: AN AUG	FOMATED SYSTEM	OR PACKAG	ES FROM A STORAGE ARE	A
Commissioner of Patent Washington, D.C. 202	ts and Trademarks		310	they,
	PETITION AND FEE	FOR EXTENSION OF TIME	E (37 CFR 1.136(a)) 3/	19/94
1. This is a petition (for an extension of time (check and comp	for a total period of One olete the applicable item below	months:	' al
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I hereby certify that this deposited with the United	paper (along with any I States Postal Service clope addressed to the	referred to as being attached on the date shown below with Commissioner of Patents and	or enclosed) is being	
		Angie F.	Beyerl	
Date: February 15,	1994	(Signature of p	fr. Byerl person mailing paper)	

(Petition and Fee for Extension of Time (37 CFR 1.136(a)) [11-2]-page 1 of 2)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107

Examiner F. Werner

In re application of

SEAN McDONALD et al.

Serial No. 07/871,832

Filed April 21, 1992

PATENT APPLICATION

AN AUTOMATED SYSTEM FOR SELECTING PACKAGES

FROM A STORAGE AREA

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I remind swrifty that this correspondence is being dependent out in his bring disclose front transless or had oblige the first an involve such account to. Commissioner of Patents and Transmarks, Westington, D.C. 2023, Oh. 2-15-24

AMENDMENT

Pittsburgh, Pennsylvania 15219 February 15, 1994

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

sir:

Please amend the claims as follows:

1. (Amended) A system for selecting and delivering packages from a [stored] storage area to fill orders comprising:

a) a storage area comprised of a plurality of storage

area locations each location [being] having package

holding means sized and configured to hold [at least
one package] a plurality of individual packages each
individual package having a machine readable label
which identifies a type of package, the packages
being held in a manner so that [the] each package
can be placed into and removed from the storage area

locations (by automated picking means), each location having a distinct x, y coordinate;

- b) automated picking means sized and configured to be able to hold packages, to select packages from the storage area locations and place packages in storage area locations in accordance with computer controlled instructions [received from a computer], the picking means having a gripper for grasping and moving individual packages;
- means for moving the automated picking means to selected storage locations;
- [c)] d) a computer having at least one memory which contains a program for directing the picking means to chosen storage area locations and a database containing at least one x, y coordinate location in the storage area for each package held within the storage area the computer being connected to the automated picking means and the means for moving the automated picking means [,]; and
- e) a package reader associated with the picking means and being positioned for reading the machine readable labels on packages located within the storage area,

wherein only one type of package is stored in each x, y coordinate location.

In claim 3, line 2, change "a package" to -- the

package --.

(Amended) The system of claim 1 wherein the picking means contains a picking means storage area for holding plurality of packages selected by the picking means.

(Amended) The system of claim 1 also comprising a supply station for receiving new and returned packages, the supply station having a plurality of locations each location [being] having package holding means sized and configured to hold at least one package in a manner so that the package can be placed into and removed from the locations by the automated picking means, each location having a distinct x, y coordinate.

(Amended) The system of claim & also comprising means for moving the supply station wherein the supply station is [movable and is sized to be] removably positioned adjacent the storage area.

(Amended) The system of claim 1 wherein the package holding means in the storage area is comprised of a plurality of rods and a hole is provided in each package to permit the package to be held on the rods.

In claim 21, line 4, before "memory" insert -- the --.

- 3 -

Cancel claims 24-35

(Amended) A system as described in claim & wherein the picking means includes at least one gripper that picks the packages; and a tooling support structure having at least one column to support the tooling and at least one row to support the column such that the tooling means moves along the column as the column moves along the row to pick a given package hanging from a corresponding support rod, said gripper able to turn at least 180° on the column to pick packages [on either the first or second holding means | from selected storage locations which locations are positioned opposite and facing one another; and

means for moving the column with respect to the row, said moving means controlled by [a] the computer and in communication therewith.

REMARKS

This is in response to the Office Action dated October 15, 1993. Applicants are submitting herewith a request for a one month extension of time along with the appropriate fee.

In the Office Action the Examiner repeated his requirement for restriction. Applicants confirm the provisional election of claims 1 thru 23 and 36. Therefore, claims 24 thru 35 were cancelled. Applicants also confirm that cancellation of the non-elected claims does not require a change of inventorship of the elected claims.

The Section 112 Rejections

The Examiner rejected claims 1, 3, 9 and 21 under Section 112 because of a perceived double inclusion of structure. Although applicants disagree with this conclusion, they have nevertheless amended the cited portions of these claims so that they can no longer be read to provide such double inclusion.

Claim 36 was amended to cure the antecedent basis problem cited by the Examiner. This amended claim also more clearly recites the movement of the gripper and relative positions of the selected packages.

Claims 1 and 9 have been amended to state that the storage locations or supply station locations have package holding means. As disclosed in the specification, such structure could be shelves or rods. Indeed, amended claim 11 specifies that the package holding means are rods.

New element c) has been added to claim 1 to specify means for moving the automated picking means. This change is in response to the Examiner's suggestion that such means should be included.

Amended claim 1 also specifies that the packages have machine readable labels which identify the type of package. That label could give package contents, expiration dates or other information useful for grouping or distinguishing among packages in the system.

Finally, claim 10 was amended to include means for moving the supply station.

Applicants submit that these amendments overcome the Section 112 rejections. Reconsideration of the claims as amended and withdrawal of the Section 112 rejections are respectfully requested.

The Section 113 Rejections

The pending claims have been rejected under Section 103 as obvious from United States Patent No. 4,896,024 to Morello et al. alone or in combination with patents to Boucher, Jr. et al. or Pohjonen et al. or O'Neil et al. or Buttarazzi or Henderson or the cited European application. Applicants have amended the pending claims to distinguish over these references. As amended, the claims now require that each storage location be capable of holding a plurality of packages, that each package have a machine readable label and that a package reader be associated with the picking means which reader is positioned for reading the machine readable labels on packages located within the storage area.

Morello et al. discloses an apparatus for dispensing and accepting the return of reusable articles such as videotapes. The reusable articles each have their own identification code, such as the 13 digit number illustrated in Figure 13. The apparatus has a housing containing a plurality of stationary locations each location being capable of holding a single reusable article therein and having its own location code. A computer and memory are provided for holding details of the location codes and article codes and controlling input and output of information into and from the memory. A transfer assembly is utilized to remove individual articles from selected locations and return articles to selected locations. A central processing unit correlates the article identification code with the location code. As shown in Figures 3, 7, 8 and 9 and described at column 9, line 50 thru column 10, line 37, the system includes a picker assembly having a platen suitable for receiving the articles. The platen contains two generally parallel spaced apart plates mounted to a base plate. The plates define the location into which the selected article is positioned. A code sensor and reader is provided below the upper plate to read an article code on any article positioned above the base plate and between the two generally parallel plates. The teaching of Morello et al. is that the transfer assembly be sent to a specific location to select the desired article. The article is removed from the location into the picker assembly. There the identification code of the article is read. The picker assembly then delivers the article to a pick-up position. The picker assembly can also receive individual articles which have been placed at the gate mechanism 22. As disclosed, the picker assembly and the gate mechanism can handle only a single article at any given point in time. Similarly each storage location can accommodate a single article at any given point in time. This system relies upon the information in memory to direct the picker assembly to a selected location to find the desired article. When the picker assembly arrives at that location it cannot read the article

identification while the article remains in the storage location. This teaching is quite different from the system of amended claim 1. The claimed storage locations accommodate a plurality of packages and a package reader is positioned to read the package label while the package is in the storage location. Thus, this system does not rely solely upon the information in the computer memory to select articles from storage locations. Articles are removed from storage locations after the reader confirms that the desired article has been found. Consequently, the amount of false picks are substantially minimized. Furthermore, applicants' system is faster, since fewer wrong selections will be made. Both Morello's system and applicants' system can have memory errors or failures. Should there be an error in the memory or a crash, applicants' system can still operate using the package reader to locate desired packages. In contrast, should the Morello et al. system lose the stored information correlating package identification to individual locations, the system is inoperative until the memory has been totally reprogramed.

The Morello reference also does not teach or suggest the following elements of applicants' system: a vacuum head gripper (required by claim 2), a sensor attached to the picking means (claim 3), bar codes (claim 5), expiration dates on labels (claim 6), a storage area in the picking means for holding a plurality of packages (claim 7), storage rods for holding the packages (claims 8 and 11), a supply station which holds a plurality of packages (claim 9) and is movable (claim 10), a program for

checking compatibility of selected products (claim 13), a conveyor to carry selected packages (claim 14) or labeled containers holding selected packages (claims 16-19), a check station (claims 20 and 21) medicine packages (claim 22), or a track and column structure over which the picking means travels (claims 23 and 26). Consequently, the claims as amended are patentable over Morello.

O'Neil et al. teaches a method and apparatus for vending which has a plurality of storage positions that are accessed by a picking unit directed by a computer and microprocessor memory system. The picking unit travels over a horizontal bar which can move up and down on support posts. O'Neil teaches the use of mechanical fingers on a rotatable table device with a magnetic means for removing articles from the storage locations. Like Morello, O'Neil provides a package reader which can only read packages after they have been removed from the storage location. The picking unit may deliver the selected article to a removal location (Figure 1) or a conveyor (Figure 9). O'Neil also teaches that one article is positioned in each storage location (see Figure 1). Like Morello, the O'Neil device includes a return station 18. This station also accommodates only a single article at any given point in time. O'Neil does not teach or suggest the elements of applicants' claims 2, 3, 6, 7, 8, 9, 10, 11, 13 and 16 thru 23. Moreover, the bar and post arrangement used by O'Neil is significantly different from applicants' track and column system. Whereas, the O'Neil picking means can only

travel in a single plane, applicants' device can move in any x-yz direction limited only by the track layout which can be any shape. O'Neil can only access one bank of storage locations whereas applicants' unit can access any number of banks of storage locations. Consequently, the O'Neil system is not suitable for many storage and access situations, such as a pharmacy, where hundreds or thousands of different packages are stored and selectively retrieved.

United States Patent No. 4,789,295 to Boucher et al. discloses an article manipulator for robots. That manipulator utilizes two vacuum cups for gripping articles. There is no disclosure of any type of storage locations beyond the positions of articles being held by the vacuum cups. Since it would be impractical to hold a separate article by each suction cup, this reference also teaches that only one article be held by the picking means at any point in time. Boucher's gripper does not include any type of package reader although it does utilize sensors for sensing the position of the article manipulator relative to an article (column 3, lines 3 thru 7). Boucher et al. also does not teach or suggest the elements of applicants' dependent claims 5 thru 23 and 36.

Pohjonen et al. also disclose a load handling method and system which utilizes a suction cup or an electromagnet for engaging articles. This patent teaches that articles are stored in boxes which are placed on and removed from a shelf. There is no teaching of the use of storage locations having x,y

coordinates which locations can receive a plurality of packages that can be separately selected. There is also no teaching of the elements required by claims 4 thru 13 and 15 thru 36.

United States Patent 4,546,901 to Buttarazzi discloses an apparatus for dispensing medication. The particular apparatus is essentially comprised of a plurality of pill dispensing units comprised of shelves containing bins of pills. The pills are individually blister packaged on a strip. The pill strips are withdrawn from the bins by a pair of gripping fingers supported on a carriage and placed on trays. A high speed conveyor transports the pills from the dispensing units to an inspection station. The carriage is mounted for transverse movement on a bar. The bar is attached transverse to a vertical column on which it moves up and down. This structure is very similar to that of O'Neil. Because the pill strips have been positioned in a precise predetermined location in the dispensing units, the dispensing carriage assemblies can be directed in advance to the locations of the desired medication. Like the other references, Buttarazzi does not teach storage locations which hold a plurality of individual packages each of which can be individually removed and replaced. Furthermore, no package reader is utilized by Buttarazzi which reader is positioned for reading machine readable labels on packages located within the storage locations. Buttarazzi also does not disclose a supply station for restocking the storage areas or the elements required by dependent claims 2 thru 14, 16 thru 23 and 36.

Henderson discloses a document storage retrieval system including a plurality of containers each having machine readable identifying indicia thereon. The disclosed containers are boxes of documents or ther articles. Each box is stored in a separate location "so that all of the articles or all articles or all of the documents are stored and retrieved as a unit." (Col. 4, lines 50-51). Thus, this system also does not permit storage of a plurality of packages in a single location such that individual packages may be retrieved and replaced. Like Morello and O'Neil each storage location contains only an individual container.

The cited European patent discloses a sorting machine wherein grippers support objects for attachment to a hook or a rail. This system does not rely upon a set of storage locations having distinct x,y coordinates. This reference was cited to show storage of packages on rods and removal of the packages from those rods. The storage system there disclosed is otherwise completely different from applicants' system.

Clearly none of the cited references disclose the claimed system. Taken together the cited prior art does not teach or suggest a system in which a plurality of individually retrievable packages are stored in a single location. The cited retrieval systems also do not have machines for reading machine readable labels on a package while that package is in a storage location. Consequently, amended claim 1 is patentable over the cited references. The remaining claims depend directly or indirectly from claim 1. Therefore, those claims are also

patentable over the cited references. Additionally, there is no teaching or suggestion of a picking means having a storage area which will hold a plurality of articles selected by the picking means as required by claim 7. The prior art also does not teach or suggest a movable supply station which holds a plurality of packages which can be removed by the picking means and placed in storage locations as set forth in claims 9 and 10. None of the prior art systems utilize a program for checking compatibility among products in packages selected by the picking means for a given order (claim 13). The art does not teach the tooling support structure of claim 36 which can pick packages from either a first or second holding means located opposite one another.

For the foregoing reasons, applicants submit that the claims as amended are patentable over the prior art. Reconsideration and allowance of the claims as amended are respectfully requested.

> Respectfully submitted, BUCHANAN INGERSOLL, P.C.

Registration No. 29,362

Attorneys for Applicant

(412) 562-1632

In re application of. Sean McDonald et al O7/871,832 Filed: April 21, 1992 For: AN AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM A STORAGE AREA THE COMMISSION OF RATENTS AND TRADEMARKS Washington, DC 1931 FILE Siz: Transmitted herewith is business of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted. A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed. No additional fee is required. The fee has been calculated as shown below: (Col. 1)	FORM	PTO-1083							С	Docket N	lo.: 92	0015	
Serial No:	In re ap	plication of:	Sean	McDon	ald	et al							
For: AN AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM A STORAGE AREA THE COMMISSIONS OF RATERITS AND TRADEMARKS Washington, DC 19231 1 1934 Transmitted herewith is the above identified application. Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed. No additional fee is required. The fee has been calculated as shown below: (Col. 1)	Senal N	ło::	07/87	1,832	1000			·		·····			
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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Sn o 7/87/832 Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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Failu	ortene re to r	ed statutory period f respond within the p	or response to this ar eriod for response w	ction is set to expire	month	(s), day d. 35 U.S.C. 133	s from the date of this letter.
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Part				RE PART OF THIS ACTION			
1. 3.		Notice of Art Cited	es Cited by Examiner by Applicant, PTO-1		. ∐ Notice re F . ☐ Notice of in	atent Drawing, PTO	948. Cation, Form PTO-152.
5.	. 🔲	Information on Hov	v to Effect Drawing C	hanges, PTO-1474. 6	. 🗆	Motifical Lates it Applie	
Part i	H	SUMMARY OF AC	TION				
1	Γīν	Claims 1-23	Sam & 36				
		Oldsitia			· · · · · · · · · · · · · · · · · · ·		are pending in the application.
		Of the above			· · · · · · · · · · · · · · · · · · ·	are v	vithdrawn from consideration.
2.		Claims 24 -	35				. have been cancelled.
3.		Claims		-			
_		Claims 1-23					
4.							
5.		Claims					are objected to.
6.		Claims			are	subject to restriction	n or election requirement
7.							
	_			mal drawings under 37 C.F.	H. 1.85 Which are	acceptable for exam	ination purposes.
8.				e to this Office action.			
9.		The corrected or su are acceptable	bstitute drawings hav	ve been received on (see explanation or Notice	re Patent Drawing		R. 1.84 these drawings
10.		The proposed additi examiner,	onal or substitute shaproved by the exam	eet(s) of drawings, filed on iner (see explanation).		has (have) been [approved by the
11.		The proposed drawi	ng correction, filed o	n, ha	s been 🔲 appro	ved. disapprov	ed (see explanation).
12.		Acknowledgment is	made of the claim for	r priority under U.S.C. 119.	The certified copy	has D been recei	ved not been received
				f no			
13.	□ s	Since this application	n appears to be in co	endition for allowance excep arte Quayle, 1935 C.D. 11; 4	et for formal matte		
14.		Other					

Serial No. 871832 Art Unit 317

-2-

-PART III-

Claims 1-23 and 36 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1, "a storage area" (line 3), individual packages" (line 18) and "storage area locations" (line 15) are a double inclusion of structure. Re claim 4, this claim repeats all of the structure in base claim 1. Re claim 18, this claim repeats structure from claim 1, i.e. a, package with a machine readable label.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered

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therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 1-7, 9, 10, 12-14, 22 and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher et al and Chucta.

Morello et al disclose storage areas 40, automated picking means 20, 62, etc. on tracks 98 (99) and computer means 16 to assign the package to X-Y coordinates (column 11, lines 11-17) and to control the picking means, but do not disclose a gripper which is disclosed by Boucher et al (62,64) and in view of the same, it would have been obvious to have substituted a gripper as taught by Boucher et al as this would have been the substitution of equivalent handling means productive of no unexpected result. Morello et al do not disclose the article's bar code being read prior to transfer from the storage area which is disclosed by Chucta (194,188,118,etc.) and in view of the same, it would have been obvious to have read thembede prior to transfer to guarantee the correct article's selection prior to transfer as taught by Chucta. Re claim 2, Boucher, Jr. et al (62,64) disclose and render obvious the substitution of a vacuum head. Re claim 3, Boucher, Jr. el (24,26) teach that it would have been obvious to have included a sensor for the package. Re claim 6, it would have been obvious to have included any relevant information on

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Art Unit

-4-

the label including an expiration date. Re claim 7, the inclusion of plural packages would have been obvious. Re claim 9, note supply station 22 of Morello et al. It would have been an obvious and conventional extension of Morello et al's matrix to have included a matrix supply station. Re claims 12 & 13, it would have been obvious to have programmed the computer in the claimed manner, if desired. Re claim 14, it would have been obvious to have included a conveyor to minimize manual intervention. Re claim 22, it would have been obvious to have handled medicine packages, if desired.

Claims 8 & 11 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher et al and Chucta as applied to claims 1 to 7, 9, 10, 12-14, 22 & 23 above, and further in view of the European Patent.

It would have been obvious to have substituted rods and holes in the package as taught by the European patent (1,15,etc.) 6. Claims 15 to 21 are rejected under 35 U.S.C § 103 as being unpatentable over Morello et al in view of Boucher et al and Chucta 12-14, 22 and 23 above, and further in view of Buttarazzi.

Buttarazzi (42, 21, 88, etc.) teaches and renders obvious the alternate use of containers (filled by picking means) placed on a conveyor. The use of conventional plural containers (as claimed) would have been obvious.

Re claim 16, it would have been obvious to have included a

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machine readable label as taught by Chucta (34). The use of a conventional check station (re claims 20 and 21) operating as claimed would have been obvious.

Claim 36 is rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher, Jr. et al, Chucta and as applied to claims 15-21 above, and further in view of the European Patent.

Note the obviousness discussion of the European Patent above. It would have been obvious to have conventionally accessed the rods in the claimed manner.

Applicant's arguments filed Feb. 17, 1994 have been fully considered but they are not deemed to be persuasive.

Re applicant's "Remarks" of the top of page 8, the same are not well-taken since the claimed subject matter, not the specification, is the measure of invention. Limitations in the specification cannot be read into the claims for the purpose of avoiding the prior art. In re Self, 213 USPQ 1,5 (CCPA 1982); In re Priest, 199 USPQ 11,15 (CCPA 1978). Re the "Remarks" on pages 10-12 concerning Boucher, Jr. et al, Buttarazzi and the European Patent, please note the application of the same in the above rejections.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a). Serial No. 871832

Art Unit 317 -6-

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to F.E. Werner whose telephone number is (703) 308-1140.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

Summary:

Claims 1-23 and 36 are rejected.

Final Rejection-SSP 3 mos.

FRANK E. WERNER PRIMARY EXAMINER 5 94 **GROUP 3100**

Werner/oc May 16, 1994



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT		ATTORNEY DOCKETT NO.
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		EXAMINER INTERVIEW SUMMARY REC	ORD	
All participants (applican	t, applicant's representa	tive, PTO personnel):		
(1) Mr. Alsto	L	(3)	***************************************	
@ Exmr. Wes	MEV	. (4)		
Date of Interview				
		and Florentians Florentians		
		en to applicant applicant's representative). res No. If yes, brief description:		
Exhibit shown or demon	stration conducted: L.I.	res 🛂 No. 11 yes, oriet description:		
Claims discussed:	discussed: the av	reed to if an agreement was reached, or any other contents that claims I be by the fact that claims I be by the fact to the contents of th	omments: TV &	continuing
attached. Also, where n 1. It is not necessa Unless the paragraph b WAIVED AND MUST IN action has already been 2. Since the exam requirements th response requi box 1 above is	or copy of the amendment of the provided of the control of the con	the amendments, if available, which the examiner agents which would render the claims allowable is available a separate record of the substance of the Interview to indicate to the contrary, A FORMAL WRITTEN REICE OF THE INTERVIEW (e.g., Items 1-7 on the reviewen one month from this interview date to provide a sy above (including any attachments) reflects a compelast Office action, and since the claims are now allowed action. Applicant is not relieved from providing a section.	w. SPONSE TO THE terse side of this forr statement of the su wable, this complet eparate record of th	LAST OFFICE ACTION IS NOT m). If a response to the last Office bistance of the Interview. ch of the objections, rejections and ted form is considered to fulfill the e substance of the interview unless UK F WERNER
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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office Sno7/87/832 Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

DATE MAILED:

FIRST NAMED APPLICANT ATTORNEY DOCKET NO. SERIAL NUMBER FILING DATE 07/871,832 04/21/92 MCDOMALD 920015 WERNEREXAMINER F1M1/1026 LYNN J. ALSTADT BUCHANAN INGERSOLL PROFESSIONAL CORP. ART UNIT PAPER NUMBER 56TH FLOOR, 600 GRANT ST. PITTSBURGH, PA 15219 3107

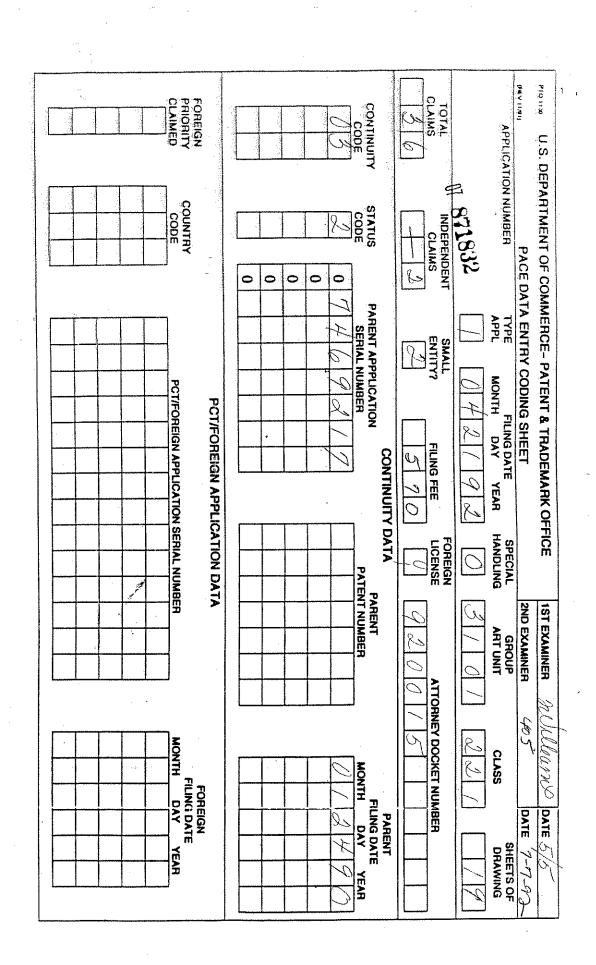
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NOTICE OF ABANDONMENT

	his application is abandoned in view of:	
1.	BADDICANTO TAILUTE TO respond to the Office letter, mailed Charge Control	
2.	. IB Applicant's letter of express abandonment which is in compliance with 37 C.F.R. 1.138.	
3.	. Applicant's failure to timely file the response received within the period set in the Office letter.	
4.	. Applicant's failure to pay the required issue fee within the statutory period of 3 months from the mailing date of of the Notice of Allowance.	
	☐ The Issue fee was received on	
	☐ The issue fee has not been received in Allowed Files Branch as of,	
	In accordance with 35 U.S.C. 151, and under the provisions of 37 C.F.R. 1.316(b), applicant(s) may petition the Commissioner to accept the delayed payment of the issue fee if the delay in payment was unavoidable. The petition must be accompanied by the issue fee, unless it has been previously submitted, in the amount specified by 37 C.F.R. 1.17 (i), and a verified showing as to the causes of the delay.	
	If applicant(s) never received the Notice of Allowance, a petition for a new Notice of Allowance and withdrawal of the holding of abandonment may be appropriate in view of Delgar Inc. v. Schuyler, 172 U.S.P.Q. 513.	
5.	. Applicant's failure to timely correct the drawings and/or submit new or substitute formal drawings by as required in the last Office action. The corrected and/or substitute drawings were received on	
6. 1	. OThe reason(s) below. Expressly a bandoned in favor of SNOS/295495 filed 8 25	95

FRANK E. WERNER
PRIMARY EXAMINER 10/94
GROUP 3100

PATENT APPLICATION FEE DETERMINATION RECORD Application or Docket Number											
Effective December 16, 1991 81/832											
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	RESIDENCE & CMZENSHIP	Pitts	burgh			ylvania (d States		
	POST OFFICE	POST OFFICE A			CITY	<u> </u>	STATE & ZIP CODE			
	ADDRESS	405 S.	Braddoo	k Ave	Pitts	burgh	PA 1522	l, USA		
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	The Commissioner is hereby authorized to charge fees under 27 CFR 1.16 and 1.17 which may be required, or credit any overpayment to Deposit Account No. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	4 X A check in the amount of § 384.00 plus \$15.00 is enclosed.
	5 A new oath or declaration is included since this application is a continuation-in- part which discloses and claims additional matter. Correction of inventorship is being made.
	6. X Amend the specification by inserting before the first line the sentence:
BI	This application is a Continuation-in-part. Econtinuation, division, of application Serial No. 07/871,832 , filed April 21, 1992 The serial No. 07/871,832 , filed April 21, 1992 The serial No. 07/871,832 , filed April 21, 1992 The serial No. 07/871,832 , filed April 21, 1992
	7. X Small entity status is still proper in view of the verified statement filed in the parent application Serial No0 X/871,83,2 filed on April 21, 1992
	8. Priority of application Serial No. \ is claimed under 35 U.S.C. 119.
	9 X The prior application is assigned of record to \Automated Healthcare, Inc.,
	\ 261 Kappa Drive, Pittsburgh, Pennsylvania 15238
	10. X The power of attorney in the prior application is to: Lynn J. Alstadt, Esq.
	600 Grant Street, Pittsburgh, Pennsylvania 15219
	11. 🛛 Also enclosed is an Information Disclosure Statement
	Address all future communications to: (May only be completed by applicant, or attorney or agent of record)
	Lynn J. Alstadt, Esq.
	Buchanan Ingersoll, P.C. 600 Grant Street, 56h Floor Pittsburgh, Pennsylvania 15219
	It is understood that secrecy under 35 U.S.C. 122 is hereby waived to the extent that if information or access is available to any one of the applications in the file wrapper of a 37 CFR 1.62 application, be it either this application or a prior application in the same file wrapper, the Patent and Trademark Office may provide similar information or access to all the other applications in the same file wrapper.
	August 25, 1994 Date Date Signature
	inventor(s) assignee of complete interest attorney or agent of record filed under \$1.34(a)

OF INVENTOR	FAMILY NAME LO	FIRST GIVEN NAME	: SECOND GIVEN NAME
OF INVENTOR	Toto 450	Gregory	<u>"</u>
RESIDENCE &	CITY	STATE OF LORENZ COUNTRY	COUNTRY OF CITIZENSHIP
GIZENSTAF	Santa Cruz	California (A	United
POST OFFICE	POST OFFICE ADORESS	СПУ	STATE & ZIP CODE/COUNTRY
ADORESS	815B Corcoran Ave.	Stata Cruz	CA 95062, USA
FULL NAME OF INVENTOR	Family Name	FIRST GIVEN NAME	SECOND GIVEN NAME
RESIDENCE &	CUA	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
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Date of deposit August 25, 1994

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Patent and Trademark Office - U.S. DEPT. of COMMERCE

Form PTO-FB-A840 (8-83)

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107

Examiner Frank E. Werner

In re application of

SEAN McDONALD et al.

: AN AUTOMATED SYSTEM

FOR SELECTING PACKAGES

: FROM A STORAGE AREA

INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15219

August 25, 1994

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

The most pertinent prior art known to applicants has been cited in the parent application Serial No. 07/871,832, filed April 21, 1992. Form PTO 1449 listing that prior art is attached hereto. Pursuant to 37 C.F.R. 1.98(d) no copy of these references are submitted herewith.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

Lynn J. Alstadt

Registration No. 29,362

Attorneys for Applicants

(412) 562-1632

Page Page	FORM PTO- (Rev. 7-80)	1449		ú,s. D	epartment of Commerce	ATTY DOOKET NO	1_o:_1	SERIAL NO	
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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office 5/108/295495 Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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Th CC	is is a communication from the DMMISSIONER OF PATENTS	e examiner in charge of you SAND TRADEMARKS	application.	11/04/94		
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******	4.					
	No application specialist	and P	esponsive to communication filed on	D. 17, 1994 This action is made final.		
	ortened statutory period f		n is set to expire month ause the application to become abandone	ds), they from the date of this letter.		
Part				id. 35 0.5.0. 133		
1.		es Cited by Examiner, P	PART OF THIS ACTION: TO-892. 2. Notice re F	Patent Drawing, PTO-948.		
3. 5.		by Applicant, PTO-1449 v to Effect Drawing Char	- 4. Notice of it	nformal Patent Application, Form PTO-152.		
Part			ges, F10-1414, 6. 1.1			
1.	Lef Claims	ې د عامد د د		are pending in the application.		
	Of the above			are withdrawn from consideration.		
2.	12 Claims 24-	35		have been cancelled.		
3.	Claims			are allowed.		
4.	2 Claims 1-23	5 and 36		are rejected.		
5.	Claims					
5 .				e subject to restriction or election requirement.		
7.			drawings under 37 C.F.R. 1.85 which are			
				acceptable for examination purposes.		
8.			•			
9.	are acceptable	bstitute drawings have to b. I not acceptable (se	neen received on e explanation or Notice re Patent Drawing			
10.	☐ The proposed addit	ional or substitute sheet	(s) of drawings, filed on	has (have) been approved by the		
	examiner. 🔲 disa	pproved by the examine	(see explanation).	другогов ву на		
11.	The proposed draw	ing correction, filed on	, has been appro	oved. disapproved (see explanation).		
12.	☐ Acknowledgment is	made of the claim for pr	iority under U.S.C. 119. The certified cop-	y has D been received D not been received		
	Deen filed in par	rent application, serial n); filed on .			
13.	Since this application	n appears to be in cond	ition for allowance except for formal matter	ers, prosecution as to the merits is closed in		
			r ulayie, 1935 C.D. 11; 453 O.G. 213.	chape outered.		

Serial No. 295495

317

Art Unit

-2-

Claims 1-23 and 36 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1, "a storage area" (line 3), individual packages" (line 18) and "storage area locations" (line 15) are a double inclusion of structure. Re claim 4, this claim repeats all of the structure in base claim 1. Re claim 18, this claim repeats structure from claim 1, i.e. a package with a machine readable label.

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out

-3-

Serial No. 295495

Art Unit 317

the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

Claims 1-7, 9, 10, 12-14, 22 and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher et al and Chucta.

Morello et al disclose storage areas 40, automated picking means 20, 62, etc. on tracks 98 (99) and computer means 16 to assign the package to X-Y coordinates (column 11, lines 11-17) and to control the picking means, but do not disclose a gripper which is disclosed by Boucher, Jr. et al (62,64) and in view of the same, it would have been obvious to have substituted a gripper as taught by Boucher et al as this would have been the substitution of equivalent handing means productive of no unexpected result. Morello et al do not disclose the article's bar code being read prior to transfer from the storage area which is disclosed by Chucta (194,188,118,etc.) and in view of the same, it would have been obvious to have read the barcode priorto transfer to guarantee the correct article's selection prior to transfer as taught by Chucta. Re claim 2, Boucher Jr. et al (62,64) disclose and render obvious the substitution of a vacuum head. Re claim 3, Boucher, Jr. etal(24,26) teach that it would have been obvious to have included a sensor for the package. claim 6, it would have been obvious to have included any relevant information on the label including an expiration date. Re claim

Serial No. 295495 Art Unit 317

7, the inclusion of plural packages would have been obvious. Re claim 9, note supply station 22 of Morello et al. It would have been an obvious and conventional extension of Morello et al's matrix to have included a matrix supply station. Re claims 12 & 13, it would have been obvious to have programmed the computer in the claimed manner, if desired. Re claim 14, it would have been obvious to have included a conveyor to minimize manual intervention. Re claim 22, it would have been obvious to have handled medicine packages, if desired.

Claims 8 and 11 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher and Chucta et al as applied to claims 1-7, 9, 10, 12-14, 22 and 23 above, and further in view of the European Patent.

It would have been obvious to have substituted rods and holes in the package as taught by the European patent (1,15,etc.).

Claims 15-21 are rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher, Jr. et al and Chucta as applied to claims 1-7, 9, 10, 12-14, 22 and 23 above, and further in view of Buttarazzi.

Buttarazzi (42, 21, 88, etc.) teaches and renders obvious the alternate use of containers (filled by picking means) placed on a conveyor. The use of conventional plural containers (as claimed) would have been obvious.

Serial No. 295495

Art Unit

-5-

Re claim 16, it would have been obvious to have included a machine readable label as taught by Chucta (34). The use of a conventional check station (re claims 20 and 21) operating as claimed would have been obvious.

Claim 36 is rejected under 35 U.S.C. § 103 as being unpatentable over Morello et al in view of Boucher, Jr. et al and Buttarazzi as applied to claims 15-21 above, and further in view of the European Patent.

Note the obviousness discussion of the European Patent above. It would have been obvious to have conventionally accessed the rods in the claimed manner.

Applicant's arguments filed Feb. 17, 1994 have been fully considered but they are not deemed to be persuasive.

Re applicant's "Remarks" on the top of page 8, the same are not well-taken since the claimed subject matter, not the specification, is the measure of invention. Limitations in the specification cannot be read into the claims for the purpose of avoiding the prior art. In re Self, 28 USPQ 1,5 (CCPA 1982); In re Priest, 199 USPQ 11,15 (CCPA 1978). Re the "Remarks" on pages 10-12 concerning Boucher, Jr. et al, Buttarazzi and the European Patent, please note the application of the same in the above rejections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to F.E. Werner whose telephone number is (703) 308-1140.

Serial No. 295495

-6-

Art Unit 317

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

Summary:

Claims 1-23 and 36 are rejected.

Rejection-SSP 3 mos.

FRANK E. WERWEL.
PRIMARY EXAMINED 11/94
GROUP 3100

Werner/oc November 03, 1994 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107

PATENT APPLICATION PROUP 310

Examiner F. Werner

In re application of AN AUTOMATED SYSTEM FOR SELECTING PACKAGES

SEAN McDONALD et al. FROM A STORAGE AREA

Serial No. 08/295,495

Filed August 25, 1994

I hereby carrily that this expressiondence is being der Deutsche erfelbe. er Germinstage der neit in en erreitste et er det Commissionen of Nationals and Transmissibe, Visualington, 1945, 20231,

AMENDMENT

Pittsburgh, Pennsylvania 15219

February 6, 1995

Hon. Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir:

Please amend the claims as follows:

(Amended) A system for selecting and delivering packages [from a storage area] to fill orders comprising:

> a storage area comprised of a plurality of storage area locations each location having package holding means sized and configured to hold a plurality of individual packages each individual package having a machine readable label which identifies a type of package, the packages being held in a manner so that each package can be placed into and removed from the storage area locations and so that the machine

readable label on at least one package in a storage location can be read without removing the package from the storage location, each location having a distinct x, y coordinate;

- automated picking means sized and configured to be able to hold packages, to select packages from the storage area locations and place packages in the storage area locations in accordance with computer controlled instructions, the picking means having a gripper for grasping and moving [individual] the packages and having a picking means storage location sized and configured to hold a plurality of packages in a face to face relationship after the plurality of packages have been retrieved from the storage area and prior to delivery of the plurality of packages to a desired destination separate from the picking means;
- c) means for moving the automated picking means to selected storage locations;
- d) a computer having at least one memory which contains a program for directing the picking means to chosen storage area locations and a database containing at least one x, y coordinate location in the storage area for each package held within the storage area the computer being connected to the automated picking means and the means for moving the automated picking means; and

e) a package reader associated with the picking means and being positioned for reading the machine readable labels on packages located within the storage area, wherein only one type of package is stored in each x, y coordinate location.

Cancel claims 4 and 18.

REMARKS

This is in response to the Office Action dated November 4, 1994.

The Section 112 Rejections

The Examiner rejected all pending claims under Section 112 because of a perceived double inclusion of structure. Claim 1 has been amended and claims 4 and 18 were cancelled to overcome the problem. Reconsideration of the claims as amended and withdrawal of the Section 112 rejections are, therefore, respectfully requested.

The Section 103 Rejections

The pending claims have been rejected under Section 103 as obvious from United States Patent No. 4,896,024 to Morello et al. in combination with patents to Boucher, Jr. et al. or Chucta or Buttarazzi or the cited European application. Applicants have amended claim 1 to require that the picking means have a picking means storage location capable of holding a plurality of packages

after those packages have been retrieved from the storage area and prior to delivery to a location separate from the picking means. This change is consistent with the suggestion made by the Examiner in an interview dated July 20, 1994, in the parent application.

Morello et al. discloses an apparatus for dispensing and accepting the return of reusable articles such as videotapes. apparatus has a housing containing a plurality of stationary locations each location being capable of holding a single reusable article therein and having its own location code. A transfer assembly is utilized to remove individual articles from selected locations and return articles to selected locations. As shown in Figures 3, 7, 8 and 9 and described at column 9, line 50 thru column 10, line 37, the Morello system includes a picker assembly having a platen suitable for receiving a selected article. platen contains two generally parallel spaced apart plates mounted to a base plate. The plates define the location into which the selected article is positioned. The teaching of Morello et al. is that the transfer assembly be sent to a specific location to select one desired article stored in that location. The article is removed from the location into the picker assembly. There the identification code of the article is read. The picker assembly then delivers the article to a pick-up position. The picker assembly can also receive individual articles which have been placed at the gate mechanism 22. As disclosed, the picker assembly and the gate mechanism can handle only a single article at any given point in time. Similarly each storage location can

accommodate a single article at any given point in time. system relies upon the information in memory to direct the picker assembly to a selected location to find the desired article. When the picker assembly arrives at that location it cannot read the article identification while the article remains in the storage location. This teaching is quite different from the system of amended claim 1. Both the claimed storage locations and the picking means can accommodate a plurality of packages. reader is positioned to read the package label while the package is in the storage location. Thus, this system does not rely solely upon the information in the computer memory to select articles from storage locations. Articles are removed from storage locations after the reader confirms that the desired article has been found. Consequently, the amount of false picks are substantially minimized. Furthermore, applicants' system is faster, since fewer wrong selections will be made. Both Morello's system and applicants' system can have memory errors or failures. there be an error in the memory or a crash, applicants' system can still operate using the package reader to locate desired packages. In contrast, should the Morello et al. system lose the stored information correlating package identification to individual locations, the system is inoperative until the memory has been totally reprogrammed.

The Morello reference also does not teach or suggest the following elements of applicants' system: a vacuum head gripper (required by claim 2), a sensor attached to the picking means

(claim 3), bar codes (claim 5), expiration dates on labels (claim 6), a storage area in the picking means for holding a plurality of packages (claim 7), storage rods for holding the packages (claims 8 and 11), a supply station which holds a plurality of packages (claim 9) and is movable (claim 10), a program for checking compatibility of selected products (claim 13), a conveyor to carry selected packages (claim 14) or labeled containers holding selected packages (claims 16-19), a check station (claims 20 and 21) medicine packages (claim 22), or a track and column structure over which the picking means travels (claims 23 and 26). Consequently, the claims as amended are patentable over Morello.

Chutca discloses an automated parts supply system in which a computer controlled guided vehicle carries one or more modules holding several trays. Each tray contains several parts. Each module and each tray has a machine readable label. The vehicle is operated by a computer to deliver trays of parts to work stations. A transfer mechanism is provided to remove trays from the module and replace those trays into the module. Thus, this system moves and tracks only trays of parts, not individual parts. Neither the parts nor the trays are stored on the vehicle in a face-to-face relationship. Additionally, only a single container is held at each storage location within the system. In contrast, the system of claim 1 contains storage locations in which a plurality of machine readable labeled packages are kept. Additionally, the selected package of applicants' system are then held in a face-toface relationship on the picking means. Thus, Chutca in

combination with Morello does not teach or suggest the system of claim 1 as here amended.

United States Patent No. 4,789,295 to Boucher et al. discloses an article manipulator for robots. That manipulator utilizes two vacuum cups for gripping articles. There is no disclosure of any type of storage location beyond the positions of articles being held by the vacuum cups. Since it would be impractical to hold a separate article by each suction cup, this reference also teaches that only one article be held by the picking means at any point in time. Boucher's gripper does not include any type of package reader although it does utilize sensors for sensing the position of the article manipulator relative to an article (column 3, lines 3 thru 7). Boucher et al. also does not teach or suggest the elements of applicants' dependent claims 5 thru 23 and 36.

United States Patent 4,546,901 to Buttarazzi discloses an apparatus for dispensing medication. The particular apparatus is essentially comprised of a plurality of pill dispensing units comprised of shelves containing bins of pills. The pills are individually blister packaged on a strip. The pill strips are withdrawn from the bins by a pair of gripping fingers supported on a carriage and placed on trays. A high speed conveyor transports the pills from the dispensing units to an inspection station. The carriage is mounted for transverse movement on a bar. The bar is attached transverse to a vertical column on which it moves up and down. Because the pill strips have been positioned in a precise

predetermined location in the dispensing units, the dispensing carriage assemblies can be directed in advance to the locations of the desired medication. Like the other references, Buttarazzi does not teach storage locations which hold a plurality of individual packages each of which can be individually removed and replaced. Furthermore, no package reader is utilized by Buttarazzi which reader is positioned for reading machine readable labels on packages located within the storage locations. Buttarazzi also does not disclose a supply station for restocking the storage areas or the elements required by dependent claims 2, 3, 5 thru 14, 16, 17, 19 thru 23 and 36.

The cited European patent discloses a sorting machine wherein grippers support objects for attachment to a hook or a rail. This system does not rely upon a set of storage locations having distinct x,y coordinates. This reference was cited to show storage of packages on rods and removal of the packages from those rods. The storage system there disclosed is otherwise completely different from applicants' system.

Clearly, none of the cited references disclose the claimed system. Taken together the cited prior art does not teach or suggest a system in which a plurality of individually retrievable packages can be stored in a single storage location and in a single picking means storage location. Consequently, amended claim 1 is patentable over the cited references. The remaining claims depend directly or indirectly from claim 1. Therefore, those claims are also patentable over the cited references. The prior art also does

not teach or suggest a movable supply station which holds a plurality of packages which can be removed by the picking means and placed in storage locations as set forth in claims 9 and 10. None of the prior art systems utilize a program for checking compatibility among products in packages selected by the picking means for a given order (claim 13). The art does not teach the tooling support structure of claim 36 which can pick packages from either a first or second holding means located opposite one another.

For the foregoing reasons, applicants submit that the claims as amended are patentable over the prior art.

Reconsideration and allowance of the claims as amended are respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL, P.C.

Lynn J. Alstadt Registration No. 29,362

Attorneys for Applicant

(412) 562-1632



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office S/10 / 295495 Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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GROUP 3100



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office Sn 08 275 495

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
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LYNN J. ALSTADT BUCHANAN INGERSULL 600 GRANT STREET, 56TH FLOOR PITTSBURGH, PA 15219

PAPER NUMBER ART UNIT 16

03/07/95

DATE MAILED:

3107

NOTICE OF ALLOWABILITY

PART I.	unication is responsive to the amendment of
1. This commi	unication is responsive to The Charles 1. 1
2. Let All the clai herewith (o	ims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included or previously malled), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due.
course.	d claims are 1-3, 5-17, 19-23 and 36
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5. Acknowled	igs filed onare acceptable. Igment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [] been received. [] not beenfiled onfiled on
6. Divote the at	ttached Examiner's Amendment.
7. Note the at	ttached Examiner Interview Summary Record, PTOL-413.
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5	informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto-er to Paper No CORRECTION IS REQUIRED.
b. 🗀 The prop REQUIRE	posed drawing correction filed on has been approved by the examiner. CORRECTION IS ED.
c. Approved	d drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS ED.
d. 🗹 Formal d	frawings are now REQUIRED.
	this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.
Attachments:	
_ Examiner's Ameno	dment _ Notice of Informal Application, PTO-152
	w Summary Record. PTOL- 413 Notice re Patent Drawings, PTO-948
_ Reasons for Allows	
 Notice of Reference Information Disclos 	ces Cited, PTO-892 Other sure Citation, PTO-1449

FRANK E. WERNER PRIMARY EXAMINER 3/1/95 **GROUP 3100**



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F1M1/0307

LYMN J. ALSTADT BUCYANAN INGERSOLL 600 GRANT STREET, 561H PLOOR PLTTSBURGH, PA 15219

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

Note attached	communication	from the	Examiner

This notice is issued in view of applicant's communication filed

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First Named Applicant	METVORAL D.		964			

TITLE OF

INVENTION ALITOMATED SYSTEM FOR SELECTING PACKAGES FROM A STORAGE AREA

	ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN, TYPE	SMALL ENTITY	FEE DUE	DATE DUE
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THE APPLICATION IDENTIFIES ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

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- I. Review the SMALL ENTITY Status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
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- B. If the Status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, pay of 1/2 the FEE DUE shown above.
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- III. All communications regarding this application must give series code (or filing date), serial number and batch number. Please direct all communication prior to issuance to Box ISSUE FEE unless advised to contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107 : PATENT

Examiner F. Werner :

In re application of :

SEAN MCDONALD ET AL. : AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM

Serial No. 08/295,495 : A STORAGE AREA

Filed August 25, 1994 :

Allowed March 7, 1995 :

LETTER

Pittsburgh, Pennsylvania 15219

August 21, 1995

Hon. Commissioner of Patents and Trademarks

Washington, D. C. 20231

Sir:

Attention: Brenda Moore - Drawing Processing Branch

This is in response to the Notice of Outstanding Drawing Requirement of August 16, 1995 indicating that the requirement for formal drawings (Form PTOL-37) attached to the official Notice of Allowance of March 7, 1995 has not been satisfied.

We are enclosing herewith a copy of our letter of April 25, 1995 enclosing seven (7) sheets of formal drawings and

Usually could fait take on appendence is being depreolated with the Unit. This is Pould Service as first the following on the United Service as first the depression of the Commission of the Commissioner a copy of the postcard received and stamped by the Mail Room on April 27, 1995.

In view of the fact that the drawings were obviously misplaced or lost by the Patent and Trademark Office, we are enclosing herewith the seven (7) sheets of formal drawings containing Figures 8 thru 10 and 16 thru 19 for entry into the above-entitled application.

Please substitute these drawings for the drawings originally filed with the application. A copy of the Notice of Draftsperson's Patent Drawing Review (Form 948) is also enclosed which objects to the original drawings filed with the application. These drawings overcome the objections.

Entry of the formal drawings is respectfully requested.

Respectfully submitted,

#Aynn J√#lstadt

Registration No. 29,362 BUCHANAN INGERSOLL, P.C.

600 Grant Street, 56th Floor Pittsburgh, PA 15219 (412) 562-1632

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 3107 : PATENT

Examiner F. Werner :

In re application of : AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM

SEAN MCDONALD et al. A STORAGE AREA

Serial No. 08/295,495

Filed August 25, 1994

Allowed March 7, 1995

LETTER

Pittsburgh, Pennsylvania 15219

April 25, 1995

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Enclosed herewith are seven sheets of formal drawings containing Figures 8 thru 10 and 16 thru 19 for entry into the above-titled application. Please substitute these drawings for the drawings originally filed with the application. A copy of the Notice of Draftperson's Patent Drawing Review (Form 948) is also enclosed which objects to the original drawings filed with the application. These drawings overcome the objections.

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Respectfully submitted,

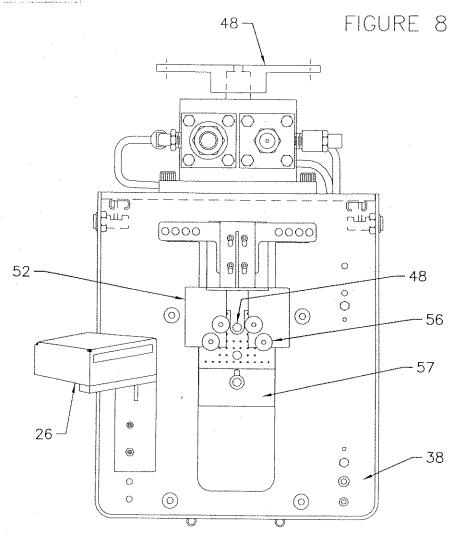
BUCHANAN INGERSOLL, P.C.

By Acros Council Lynn J. Alstadt Registration No. 29,362 Attorneys for Applicants

(412) 562-1632

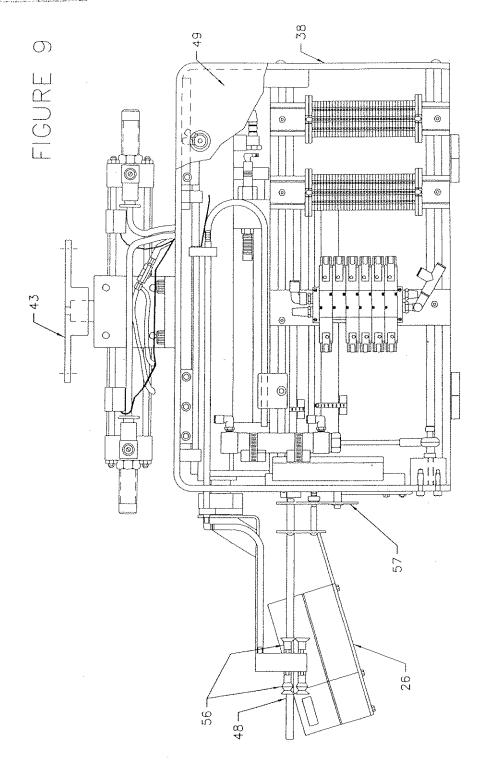
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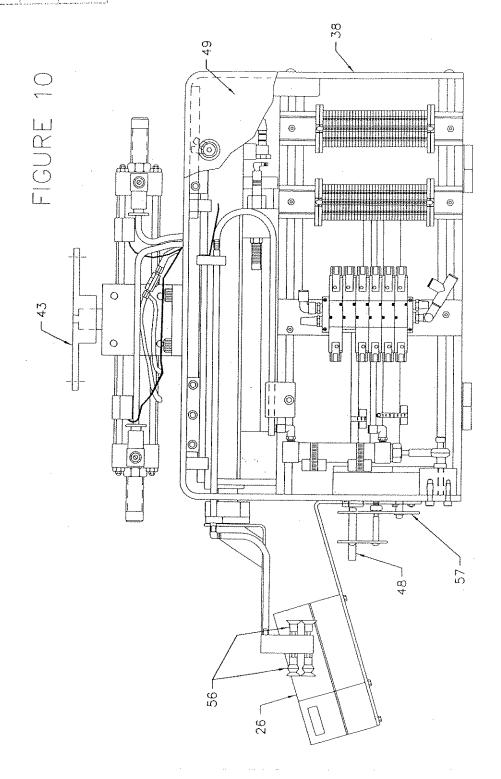
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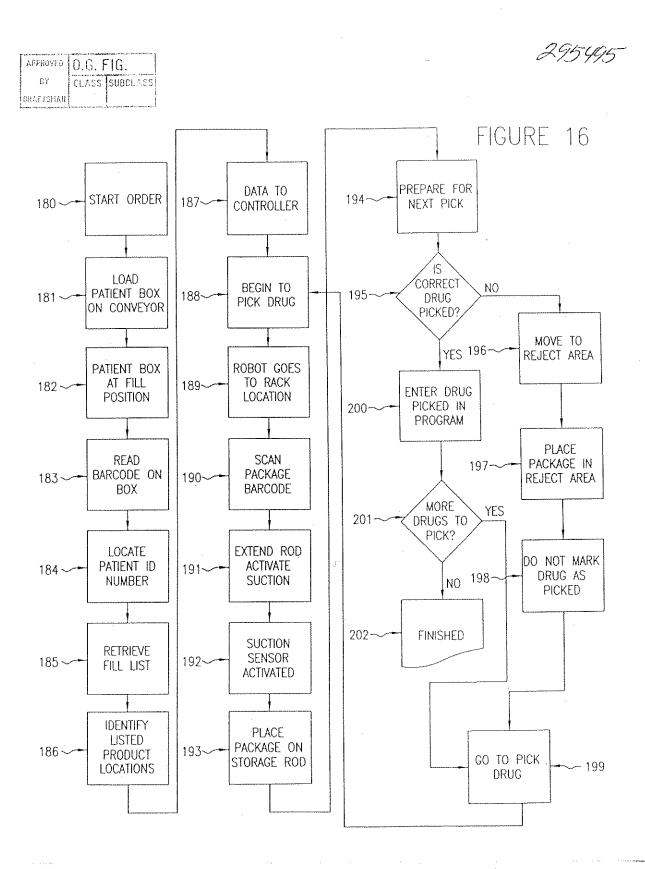
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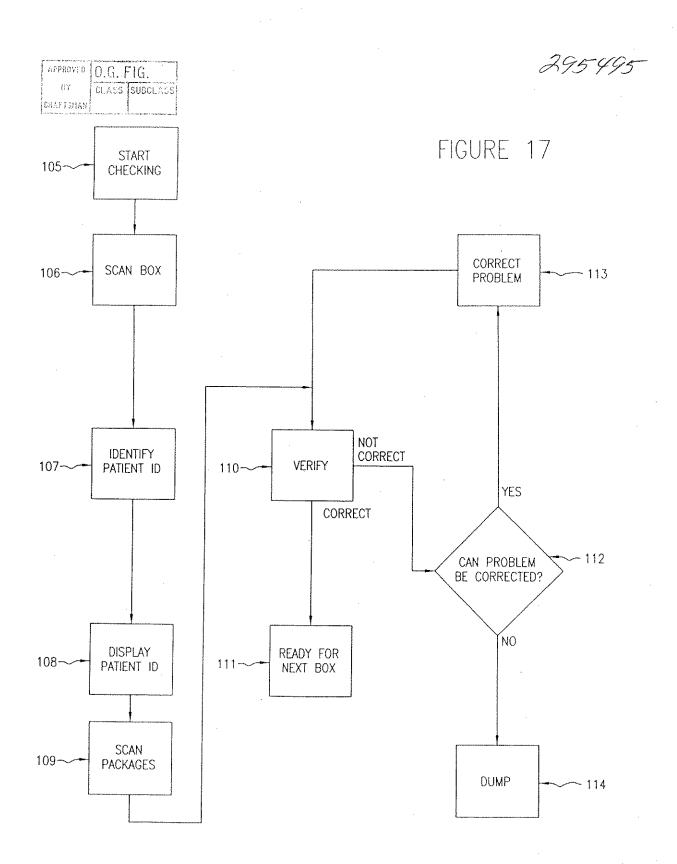


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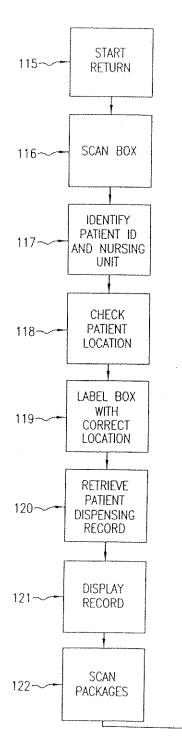


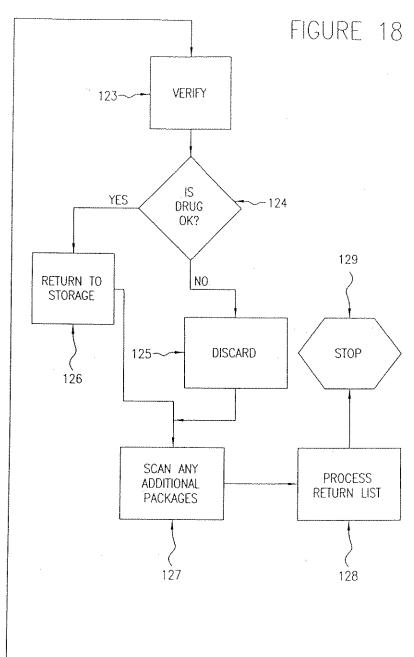


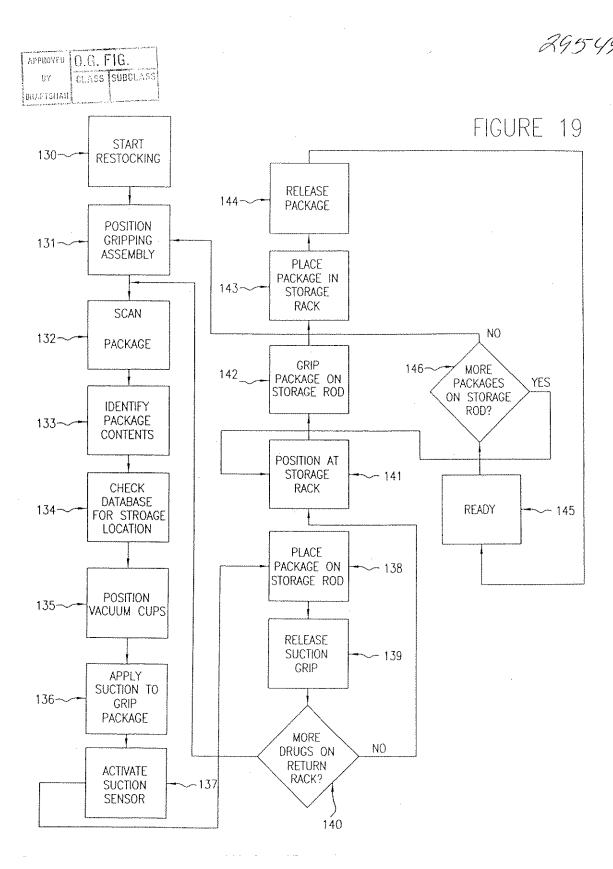












The dating stamp of the Patent Office on this card will be taken as an indication that the accompanying paper was filed.

Paper dated April 25, 1995

Atty's File No. 940688/1ja

Letter

7 sheets of formal drawings

Applicant(s) McDonald et al A copy of draft-person's patent drawing review



PTO FORM 948 (Rev 5-91)	
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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

ATTACHMENT TO PAPER NUMBER S APPLICATION NUMBER 00/852

NOTICE OF DRAFTSMAN'S PATENT DRAWING REVIEW

The PTO Draftsmen review all originally filed drawings regardless

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SERIAL NUMBER	FILING DATE;	FIRST NÄMED APPLICANT		ATTORNEY DOCKET NO.
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4102/0816

LYNN J. ALSTADI BUCHAMAM INGERSOLL 500 GRANT STREET, SATH FLOOR PITTSHURGH, PA

. WETONEH exi a	MINER
ART UNIT	PAPER NUMBER
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NOTICE OF OUTSTANDING DRAWING REQUIREMENT

Office records indicate that the requirement for

🕽 formal drawings drawing corrections ſ

which was made in the form PTOL-37

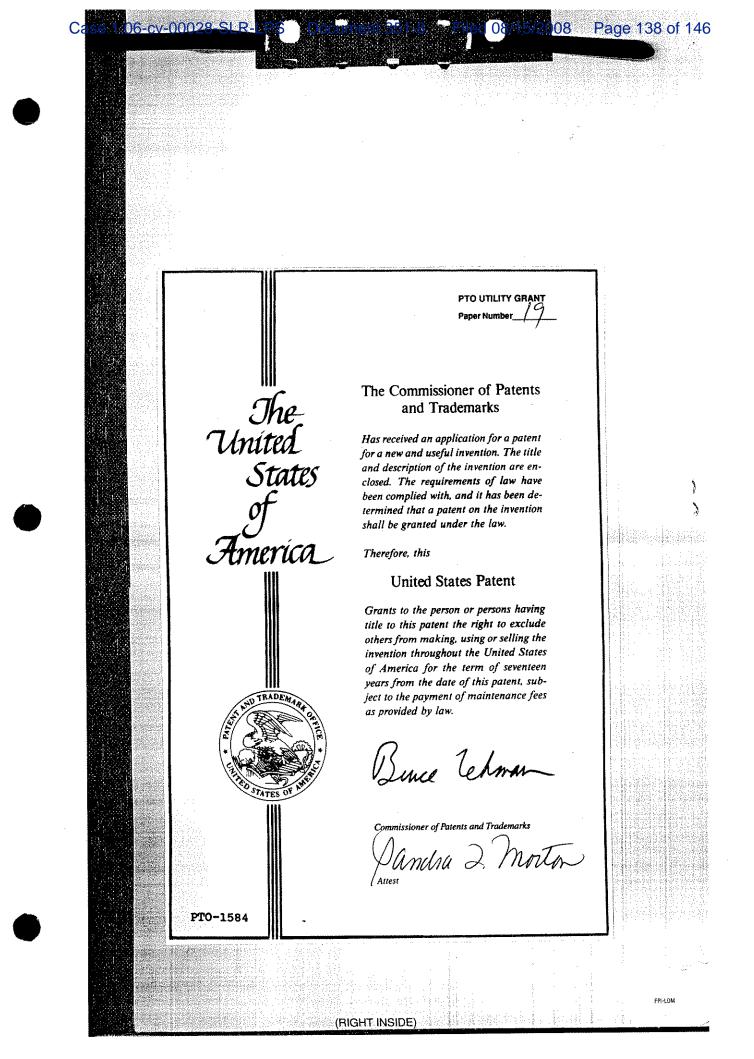
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has not been satisfied. As set forth in the form PTOL-37 and form PTO-1474, required drawing corrections must have been made by a bonded draftsman or new drawings submitted during the three month statutory period set for payment of the issue fee. The three month period for payment of the issue fee is a statutory requirement (35 USC 151) and cannot be extended. However, drawing corrections and new formal drawings will be accepted as timely filed through the end of a six month statutory period (35 USC 133), provided a request for extension of time and the correct fee in accordance with 37 CFR 1.136(a) is submitted before the end of the six month period. The required fees are set forth in 37 CFR 1.17(a), (b), and (c). If the requirements are not satisfied within the statutory period, this application will be abandoned.

> Brenda Moore **Drawing Processing Branch** 703-305-8428

Drafting Branch Office of Publications



420



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

: PATENT APPLICATION

In re application of

SEAN C. MCDONALD ET AL.

: AUTOMATED SYSTEM FOR SELECTING PACKAGES FROM

: A STORAGE AREA Serial No. 295,495

Filed August 25, 1994

Patent No. 5,468,110

Issued November 21, 1995

LETTER

Pittsburgh, Pennsylvania 15219 January 8, 1996

Hon. Commissioner of Patents and Trademarks Washington, D. C. 20231

Sir:

Applicant requests that a Certificate of Correction be issued to correct the errors which are indicated on the attached form for Certificate of Correction.

Respectfully submitted,

Registration No./29,362

BUCHANAN INGERSOLL, P.C.

One Oxford Centre

301 Grant Street, 20th Floor

Pittsburgh, PA 15219

(412) 562-1632

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UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 5,468,110

DATED : November 21, 1995

INVENTOR(S): SEAN C. McDONALD, ELLEN J. HERTZ, JAMES A. SMITH, GREGORY TOTO

It is certified that error appears in the above-indentified patent and that said Letters Patent is hereby corrected as shown below:

Column 1, line 6, change "07/87/832" to --07/871,832--.

Column 14, lines 47-48, claim 20, delete "[on either the first or".

MAILING ADDRESS OF SENDER: Lynn J. Alstadt
BUCHANAN INGERSOLL, P.C.
301 Grant Street, 20th Floor
Pittsburgh, PA 15219

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PATENT NO. 5,468,110

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 5,468,110

DATED: November 21, 1995

INVENTOR(S): SEAN C. McDONALD, ELLEN J. HERTZ, JAMES A. SMITH, GREGORY TOTO

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Column 1, line 6, change "07/87/832" to --07/871,832--.

Column 14, lines 47-48, claim 20, delete "[on either the first or".

Signed and Sealed this Sixteenth Day of April, 1996

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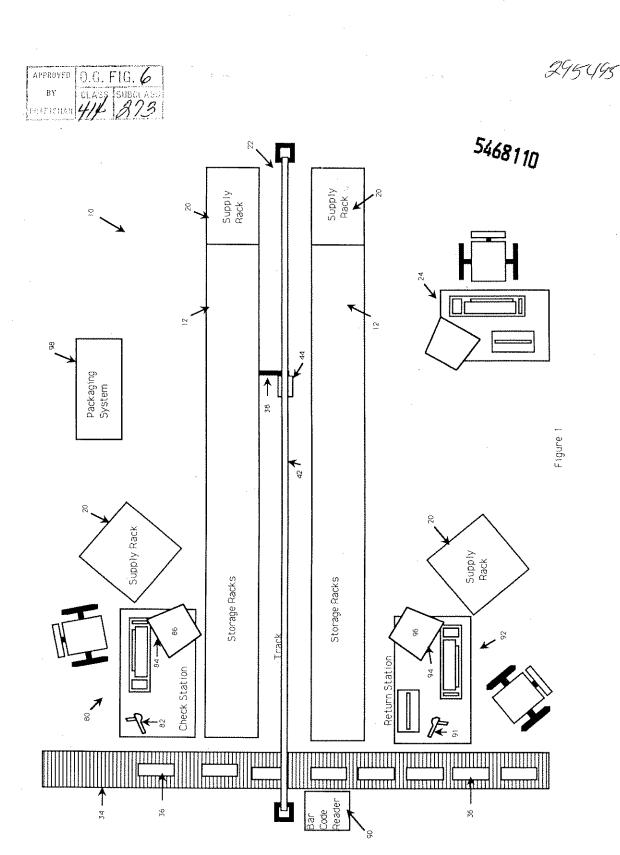
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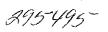
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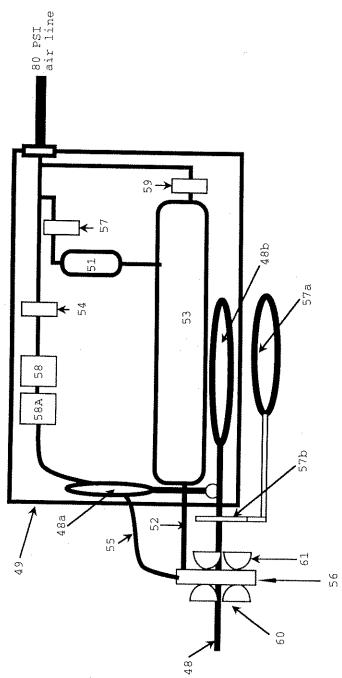


Figure 11

APPROVED O.G. FIG. CLASS SUBCLASS DOWE ISHAN Supply Rack Supp ly Rack Supply Rack Storage Racks Check Station Bar Code Reader 74 PE 36